

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: May 12, 2005, 18:55:15 ; Search time 171 Seconds
(without alignments)
1352.530 Million cell updates/sec

Title: US-09-943-780-69

Perfect score: 3135

Sequence: 1 MCSRPVLLPLLLLLALGPG.....PLMGFPGLQSLPHAKPYI 598

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 2105692

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1500 summaries

Database : A_Geneseq_16Dec04:*

1: geneseqp1980s:*

2: geneseqp1990s:*

3: geneseqp2000s:*

4: geneseqp2001s:*

5: geneseqp2002s:*

6: geneseqp2003as:*

7: geneseqp2003bs:*

8: geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	3135	100.0	598	2	AAY06484 Human tum
2	3135	100.0	598	3	AAB01322 Human PRO
3	3135	100.0	598	3	AAY93691 Amino aci
4	3135	100.0	598	5	AAB83643 Human PRO
5	3135	100.0	598	6	ABU55931 Human sec
6	3135	100.0	598	6	ABU80790 Human PRO
7	3135	100.0	598	6	ABO33756 Novel hum
8	3135	100.0	598	6	ABU60241 Human PRO
9	3135	100.0	598	6	ABU64927 Human sec
10	3135	100.0	598	6	ABU58361 Human PRO
11	3135	100.0	598	6	ABU57247 Human PRO
12	3135	100.0	598	6	ABU56312 Human sec
13	3135	100.0	598	6	ABU60352 Novel hum
14	3135	100.0	598	6	ABU82099 Novel hum
15	3135	100.0	598	6	ABU11313 Human PRO
16	3135	100.0	598	6	ABU67132 Human PRO
17	3135	100.0	598	6	ABJ72279 Human PRO
18	3135	100.0	598	6	ABJ72407 Human PRO
19	3135	100.0	598	6	ABO34302 Human sec
20	3135	100.0	598	7	ABJ72109 Human mem
21	3135	100.0	598	7	ADB83594 Novel hum
22	3135	100.0	598	7	ADB80700 Novel hum
23	3135	100.0	598	7	ADB73241 Novel hum
24	3135	100.0	598	7	ADB78323 Novel hum
25	3135	100.0	598	7	ADB84971 Human PRO

26	3135	100.0	598	7	ADB78077	Novel hum
27	3135	100.0	598	7	ADB87143	Human PRO
28	3135	100.0	598	7	ADB84725	Human PRO
29	3135	100.0	598	7	ADB83840	Novel hum
30	3135	100.0	598	7	ADB72995	Novel hum
31	3135	100.0	598	7	ADC25825	Human sec
32	3135	100.0	598	7	ADC25583	Human sec
33	3135	100.0	598	7	ADC25704	Human sec
34	3135	100.0	598	7	ADC36833	Human PRO
35	3135	100.0	598	7	ADC21823	Human PRO
36	3135	100.0	598	7	ADC49854	Novel hum
37	3135	100.0	598	7	ADC49053	Novel hum
38	3135	100.0	598	7	ADC49570	Novel hum
39	3135	100.0	598	7	ADC47431	Novel hum
40	3135	100.0	598	7	ADC47176	Novel hum
41	3135	100.0	598	7	ADC78051	Novel hum
42	3135	100.0	598	7	ADD06286	Novel hum
43	3135	100.0	598	7	ADC77805	Novel hum
44	3135	100.0	598	7	ADD50768	Novel hum
45	3135	100.0	598	7	ADD51014	Novel hum
46	3135	100.0	598	7	ADD50495	Human PRO
47	3135	100.0	598	7	ADD50249	Human PRO
48	3135	100.0	598	7	ADD51260	Novel hum
49	3135	100.0	598	7	ADH27489	Human sec
50	3135	100.0	598	8	ADC48807	Novel hum
51	3135	100.0	598	8	ADE20978	Novel hum
52	3135	100.0	598	8	ADE05822	Human PRO
53	3135	100.0	598	8	ADD75051	Human PRO
54	3135	100.0	598	8	ADD75797	Novel hum
55	3135	100.0	598	8	ADD85029	Novel hum
56	3135	100.0	598	8	ADD86855	Novel hum
57	3135	100.0	598	8	ADE20732	Novel hum
58	3135	100.0	598	8	ADE39029	Novel hum
59	3135	100.0	598	8	ADE05576	Human PRO
60	3135	100.0	598	8	ADD73561	Human PRO
61	3135	100.0	598	8	ADD78401	Novel hum
62	3135	100.0	598	8	ADE21224	Novel hum
63	3135	100.0	598	8	ADD77339	Novel hum
64	3135	100.0	598	8	ADE20486	Novel hum
65	3135	100.0	598	8	ADD75551	Human PRO
66	3135	100.0	598	8	ADD74067	Human PRO
67	3135	100.0	598	8	ADD74313	Human PRO
68	3135	100.0	598	8	ADD76043	Novel hum
69	3135	100.0	598	8	ADD85535	Novel hum
70	3135	100.0	598	8	ADE05084	Human PRO
71	3135	100.0	598	8	ADD75297	Human PRO
72	3135	100.0	598	8	ADD76841	Novel hum
73	3135	100.0	598	8	ADD86609	Novel hum
74	3135	100.0	598	8	ADD78077	Novel hum
75	3135	100.0	598	8	ADE71538	Human sec
76	3135	100.0	598	8	ADD77585	Novel hum
77	3135	100.0	598	8	ADD77831	Novel hum
78	3135	100.0	598	8	ADD85289	Novel hum
79	3135	100.0	598	8	ADD73821	Human PRO
80	3135	100.0	598	8	ADD74559	Human PRO
81	3135	100.0	598	8	ADD77087	Novel hum
82	3135	100.0	598	8	ADD85781	Novel hum
83	3135	100.0	598	8	ADE05330	Human PRO
84	3135	100.0	598	8	ADD74805	Human PRO
85	3135	100.0	598	8	ADG05617	Novel hum
86	3135	100.0	598	8	ADG27171	Human PRO
87	3135	100.0	598	8	ADG11234	Novel hum
88	3135	100.0	598	8	ADG12013	Novel hum
89	3135	100.0	598	8	ADG94570	Novel hum
90	3135	100.0	598	8	ADG06666	Human PRO
91	3135	100.0	598	8	ADG63481	Human sec
92	3135	100.0	598	8	ADH39010	Novel hum
93	3135	100.0	598	8	ADH43210	Human sec
94	3135	100.0	598	8	ADG34100	Novel hum
95	3135	100.0	598	8	ADJ133570	Human PRO
96	3135	100.0	598	8	ADH69664	Human PRO
97	3135	100.0	598	8	ADJ29825	Novel hum
98	3135	100.0	598	8	ADM27222	Novel hum

99	3135	100.0	598	8	ADK66580	Human	PRO	AGK66580	Human	PRO	172	3083.5	98.4	673	7	ADC14849	Novel	hum
100	3135	100.0	598	8	ADN00448	Human	sec	ADn00448	Human	sec	173	3083.5	98.4	673	7	ADC52344	Novel	hum
101	3126	99.7	598	3	AAy17831	Human	PRO	Aay17831	Human	PRO	174	3083.5	98.4	673	7	ADC14352	Novel	hum
102	3083.5	98.4	673	3	AAb07428	Amino aci		Aab07428	Amino aci		175	3083.5	98.4	673	7	ADd07884	Novel	hum
103	3083.5	98.4	673	4	AAb87533	Human	PRO	Aab87533	Human	PRO	176	3083.5	98.4	673	7	ADc81709	Human	PRO
104	3083.5	98.4	673	4	AAb65166	Human	PRO	Aab65166	Human	PRO	177	3083.5	98.4	673	7	ADd07351	Novel	hum
105	3083.5	98.4	673	5	AAU75266	Human	Sli	Aau75266	Human	Sli	178	3083.5	98.4	673	7	ADc82242	Human	PRO
106	3083.5	98.4	673	5	ABG95858	Human	sec	Abg95858	Human	sec	179	3083.5	98.4	673	7	ADD08422	Novel	hum
107	3083.5	98.4	673	5	ABG78042	Human	leu	Abg78042	Human	leu	180	3083.5	98.4	673	7	ADD06671	Novel	hum
108	3083.5	98.4	673	6	ABU57981	Human	PRO	Abu57981	Human	PRO	181	3083.5	98.4	673	7	ADc82918	Human	PRO
109	3083.5	98.4	673	6	ABU59059	Novel	hum	Abu59059	Novel	hum	182	3083.5	98.4	673	7	ADD55025	Human	PRO
110	3083.5	98.4	673	6	ABU82571	Human	sec	Abu82571	Human	sec	183	3083.5	98.4	673	7	ADD36020	Novel	hum
111	3083.5	98.4	673	6	ABU60490	Human	sec	Abu60490	Human	sec	184	3083.5	98.4	673	7	ADD55983	Human	PRO
112	3083.5	98.4	673	6	ABU13872	Human	PRO	Abu13872	Human	PRO	185	3083.5	98.4	673	7	ADD54421	Human	PRO
113	3083.5	98.4	673	6	ABU72457	Novel	hum	Abu72457	Novel	hum	186	3083.5	98.4	673	7	ADE26575	Novel	hum
114	3083.5	98.4	673	6	ABU90883	Novel	hum	Abu90883	Novel	hum	187	3083.5	98.4	673	7	ADE26042	Novel	hum
115	3083.5	98.4	673	6	ABO33942	Human	sec	AbO33942	Human	sec	188	3083.5	98.4	673	7	ADf66979	Human	PRO
116	3083.5	98.4	673	6	ABU71959	Novel	hum	Abu71959	Novel	hum	189	3083.5	98.4	673	7	ADG01021	Novel	hum
117	3083.5	98.4	673	6	ABU71513	Human	sec	Abu71513	Human	sec	190	3083.5	98.4	673	7	ADG08574	Novel	hum
118	3083.5	98.4	673	6	ABU72294	Human	PRO	Abu72294	Human	PRO	191	3083.5	98.4	673	7	ADf95195	Novel	hum
119	3083.5	98.4	673	6	ABU90967	Human	PRO	Abu90967	Human	PRO	192	3083.5	98.4	673	7	ADH24048	Novel	hum
120	3083.5	98.4	673	6	ABU59206	Human	sec	Abu59206	Human	sec	193	3083.5	98.4	673	7	ADH34074	Novel	hum
121	3083.5	98.4	673	6	ABO25903	Human	PRO	AbO25903	Human	PRO	194	3083.5	98.4	673	7	ADH23907	Novel	hum
122	3083.5	98.4	673	6	ABO27288	Human	sec	AbO27288	Human	sec	195	3083.5	98.4	673	7	ADH23878	Novel	hum
123	3083.5	98.4	673	6	ABU92483	Human	sec	Abu92483	Human	sec	196	3083.5	98.4	673	7	ADg85282	Novel	hum
124	3083.5	98.4	673	6	ABU81153	Human	sec	Abu81153	Human	sec	197	3083.5	98.4	673	7	ADH24558	Novel	hum
125	3083.5	98.4	673	6	ABO53268	Novel	hum	AbO53268	Novel	hum	198	3083.5	98.4	673	7	ADH37414	Human	sec
126	3083.5	98.4	673	6	ABU58912	Human	sec	Abu58912	Human	sec	199	3083.5	98.4	673	7	ADH02003	Human	PRO
127	3083.5	98.4	673	6	ABU92290	Novel	hum	Abu92290	Novel	hum	200	3083.5	98.4	673	7	ADH37584	Human	sec
128	3083.5	98.4	673	6	ABU59355	Novel	hum	Abu59355	Novel	hum	201	3083.5	98.4	673	7	ADg85622	Novel	hum
129	3083.5	98.4	673	6	ABU98270	Novel	hum	Abu98270	Novel	hum	202	3083.5	98.4	673	7	ADH24218	Novel	hum
130	3083.5	98.4	673	6	ABU82275	Novel	hum	Abu82275	Novel	hum	203	3083.5	98.4	673	7	ADH38512	Novel	hum
131	3083.5	98.4	673	6	ABU82482	Novel	hum	Abu82482	Novel	hum	204	3083.5	98.4	673	7	ADg83633	Human	PRO
132	3083.5	98.4	673	6	ABU92121	Novel	hum	Abu92121	Novel	hum	205	3083.5	98.4	673	7	ADH29441	Novel	hum
133	3083.5	98.4	673	6	ABU96446	Human	PRO	Abu96446	Human	PRO	206	3083.5	98.4	673	7	ADH37754	Human	sec
134	3083.5	98.4	673	6	ABU10827	Human	PRO	Abu10827	Human	PRO	207	3083.5	98.4	673	7	ADH37754	Human	sec
135	3083.5	98.4	673	6	ABU81579	Novel	hum	Abu81579	Novel	hum	208	3083.5	98.4	673	7	ADH37931	Human	sec
136	3083.5	98.4	673	6	ABU72116	Human	PRO	Abu72116	Human	PRO	209	3083.5	98.4	673	7	ADH57351	Novel	hum
137	3083.5	98.4	673	6	ABO88518	Human	sec	AbO88518	Human	sec	210	3083.5	98.4	673	7	ADH53493	Novel	hum
138	3083.5	98.4	673	6	ABO34032	Human	PRO	AbO34032	Human	PRO	211	3083.5	98.4	673	7	ADH53663	Novel	hum
139	3083.5	98.4	673	6	ADBI17073	Human	tra	ADb17073	Human	tra	212	3083.5	98.4	673	7	ADH51999	Novel	hum
140	3083.5	98.4	673	6	ADBI17563	Human	sec	ADa37563	Human	sec	213	3083.5	98.4	673	7	ADH49854	Novel	hum
141	3083.5	98.4	673	6	ADA21249	Human	sec	AdA21249	Human	sec	214	3083.5	98.4	673	7	ADI25364	Novel	hum
142	3083.5	98.4	673	6	ABO44246	Human	sec	AbO44246	Human	sec	215	3083.5	98.4	673	7	ADH90157	Novel	hum
143	3083.5	98.4	673	6	ADAI10036	Human	sec	ADa10036	Human	sec	216	3083.5	98.4	673	7	ADI25534	Novel	hum
144	3083.5	98.4	673	6	ADAI19878	Novel	hum	ADa19878	Novel	hum	217	3083.5	98.4	673	7	ADH97708	Novel	hum
145	3083.5	98.4	673	6	ADBI17261	Human	tra	ADb17261	Human	tra	218	3083.5	98.4	673	7	ADI35233	Human	PRO
146	3083.5	98.4	673	6	ADAI17580	Human	PRO	ADa17580	Human	PRO	219	3083.5	98.4	673	7	ADI03556	Novel	hum
147	3083.5	98.4	673	6	ADA27688	Human	sec	AdA27688	Human	sec	220	3083.5	98.4	673	7	ADI11913	Human	PRO
148	3083.5	98.4	673	6	ADA20050	Novel	hum	ADa20050	Novel	hum	221	3083.5	98.4	673	7	ADH89987	Novel	hum
149	3083.5	98.4	673	6	ABO34174	Human	sec	AbO34174	Human	sec	222	3083.5	98.4	673	7	ADH99725	Novel	hum
150	3083.5	98.4	673	6	ADA94268	Human	sec	AdA94268	Human	sec	223	3083.5	98.4	673	7	ADH98388	Novel	hum
151	3083.5	98.4	673	6	ADA38493	Human	sec	AdA38493	Human	sec	224	3083.5	98.4	673	7	ADI11063	Human	PRO
152	3083.5	98.4	673	6	ADA92614	Human	sec	AdA92614	Human	sec	225	3083.5	98.4	673	7	ADI11573	Human	PRO
153	3083.5	98.4	673	6	ADA00347	Human	sec	AdA00347	Human	sec	226	3083.5	98.4	673	7	ADH98218	Novel	hum
154	3083.5	98.4	673	7	ABO53118	Human	sec	AbO53118	Human	sec	227	3083.5	98.4	673	7	ADH98558	Novel	hum
155	3083.5	98.4	673	7	ADA22175	Human	sec	AdA22175	Human	sec	228	3083.5	98.4	673	7	ADH98048	Novel	hum
156	3083.5	98.4	673	7	ABO22488	Human	sec	AbO22488	Human	sec	229	3083.5	98.4	673	7	ADI05036	Novel	hum
157	3083.5	98.4	673	7	ADA06341	Human	sec	AdA06341	Human	sec	230	3083.5	98.4	673	7	ADI03386	Novel	hum
158	3083.5	98.4	673	7	ADA39034	Human	sec	AdA39034	Human	sec	231	3083.5	98.4	673	7	ADI04781	Novel	hum
159	3083.5	98.4	673	7	ADH85589	Novel	hum	ADh85589	Novel	hum	232	3083.5	98.4	673	7	ADH78235	Human	PRO
160	3083.5	98.4	673	7	ADH96060	Human	PRO	ADh96060	Human	PRO	233	3083.5	98.4	673	7	ADI19579	Novel	hum
161	3083.5	98.4	673	7	ADH68268	Human	PRO	ADh68268	Human	PRO	234	3083.5	98.4	673	7	ADH90327	Novel	hum
162	3083.5	98.4	673	7	ADH68075	Human	PRO	ADh68075	Human	PRO	235	3083.5	98.4	673	7	ADI03046	Novel	hum
163	3083.5	98.4	673	7	ADH90892	Novel	hum	ADh90892	Novel	hum	236	3083.5	98.4	673	7	ADH77895	Human	PRO
164	3083.5	98.4	673	7	ADCS7532	Human	PRO	ADc57532	Human	PRO	237	3083.5	98.4	673	7	ADH97878	Novel	hum
165	3083.5	98.4	673	7	ADCS4896	Human	PRO	ADc54896	Human	PRO	238	3083.5	98.4	673	7	ADI01263	Novel	hum
166	3083.5	98.4	673	7	ADCI1763	Human	sec	ADc11763	Human	sec	239	3083.5	98.4	673	7	ADI01958	Novel	hum
167	3083.5	98.4	673	7	ADC06972	Human	PRO	ADc06972	Human	PRO	240	3083.5	98.4	673	7	ADI03216	Novel	hum
168	3083.5	98.4	673	7	ADCS6185	Human	PRO	ADc56185	Human	PRO	241	3083.5	98.4	673	7	ADI11403	Human	PRO
169	3083.5	98.4	673	7	ADCI17151	Mammalian		ADc17151	Mammalian		242	3083.5	98.4	673	7	ADI02305	Novel	hum
170	3083.5	98.4	673	7	ADC07240	Human	sec	ADc07240	Human	sec	243	3083.5	98.4	673	7	ADI11743	Human	PRO
171	3083.5	98.4	673	7	ADC11230	Human	sec	ADc11230	Human	sec	244	3083.5	98.4	673	7	ADI05380	Novel	hum

245	3083.5	98.4	673	7	ADH79452	Adh79452	Novel hum	318	3083.5	98.4	673	8	ADK00901	Adk00901	Human PRO
246	3083.5	98.4	673	7	ADH19409	Adh19409	Novel hum	319	3083.5	98.4	673	8	ADK14422	Adk14422	Novel hum
247	3083.5	98.4	673	7	ADH05210	Adh05210	Novel hum	320	3083.5	98.4	673	8	ADM08071	Adm08071	Human PRO
248	3083.5	98.4	673	7	ADH79622	Adh79622	Novel hum	321	3083.5	98.4	673	8	ADR45587	Adr45587	Human leu
249	3083.5	98.4	673	7	ADH01448	Adh01448	Novel hum	322	3078.5	98.2	673	4	AB846689	Ab846689	Amino aci
250	3083.5	98.4	673	7	ADH01618	Adh01618	Novel hum	323	3078.5	98.2	673	7	ADP69108	Adp69108	Human MPS
251	3083.5	98.4	673	7	ADH01788	Adh01788	Novel hum	324	3078.5	98.2	676	8	ABO59449	Ab059449	Human gen
252	3083.5	98.4	673	7	ADH79792	Adh79792	Novel hum	325	2935.5	93.6	672	6	ADA57213	Ada57213	Human sec
253	3083.5	98.4	673	7	ADH04610	Adh04610	Novel hum	326	2935.5	93.6	672	6	ABR41092	AbR41092	Human sec
254	3083.5	98.4	673	7	ADH02746	Adh02746	Novel hum	327	2935.5	93.6	672	6	ABR47923	AbR47923	Human sec
255	3083.5	98.4	673	7	ADH78065	Adh78065	Human PRO	328	2935.5	93.6	673	3	AB38323	Ab38323	Human sec
256	3083.5	98.4	673	7	ADH25704	Adh25704	Novel hum	329	2935.5	93.6	723	3	AB38400	Ab38400	Fragment
257	3083.5	98.4	673	7	ADH25874	Adh25874	Novel hum	330	2845.5	90.8	630	5	AU75267	Au75267	Human Sli
258	3083.5	98.4	673	7	ADH65386	Adh65386	Novel hum	331	2712.5	86.5	611	3	AY66843	AY66843	Membrane-
259	3083.5	98.4	673	7	ADH98728	Adh98728	Novel hum	332	2490.5	79.4	673	8	ABG78046	Abg78046	Mouse leu
260	3083.5	98.4	673	7	ADH79969	Adh79969	Novel hum	333	2490.5	79.4	673	8	ADR45596	Adr45596	Human leu
261	3083.5	98.4	673	7	ADH93700	Adh93700	Novel hum	334	2484.5	79.2	673	6	ADA00753	Ada00753	Murine st
262	3083.5	98.4	673	8	ADC52154	Adc52154	Novel hum	335	1672.5	53.3	493	3	AB07431	Ab07431	A leucine
263	3083.5	98.4	673	8	ADH35178	Adh35178	Human PRO	336	1178.5	37.6	281	5	ABB72324	Abb72324	Rat prote
264	3083.5	98.4	673	8	ADG11428	Adg11428	Human PRO	337	997.5	31.8	311	7	AAO30403	Aao30403	Human sec
265	3083.5	98.4	673	8	ADH06586	Adh06586	Novel hum	338	980.5	31.3	307	6	ABR58506	AbR58506	Human sec
266	3083.5	98.4	673	8	ADH06416	Adh06416	Novel hum	339	471.5	15.0	117	7	AAO30821	Aao30821	Human cel
267	3083.5	98.4	673	8	ADG68837	Adg68837	Novel hum	340	360.5	11.5	635	5	AAE23980	Aae23980	Human LP2
268	3083.5	98.4	673	8	ADH27727	Adh27727	Novel hum	341	360.5	11.5	647	5	ABP70142	Abp70142	Human NOV
269	3083.5	98.4	673	8	ADH25068	Adh25068	Novel hum	342	359.5	11.5	635	6	AAO26256	Aao26256	MDDT rela
270	3083.5	98.4	673	8	ADH33700	Adh33700	Human PRO	343	357.5	11.4	778	5	ABP70144	Abp70144	Human NOV
271	3083.5	98.4	673	8	ADH02343	Adh02343	Human PRO	344	350.5	11.2	545	8	ADM09079	Adm09079	Human pha
272	3083.5	98.4	673	8	ADH07950	Adh07950	Novel hum	345	339.5	10.8	566	5	ABP70143	Abp70143	Human NOV
273	3083.5	98.4	673	8	ADG69347	Adg69347	Novel hum	346	338.5	10.8	551	5	AAE17484	Aae17484	Human leu
274	3083.5	98.4	673	8	ADH39168	Adh39168	Novel hum	347	337.5	10.7	618	7	ADI21104	Adi21104	Novel hum
275	3083.5	98.4	673	8	ADG83908	Adg83908	Human PRO	348	337.5	10.7	653	6	ADA23287	Ada23287	Human SEC
276	3083.5	98.4	673	8	ADH19298	Adh19298	Human sec	349	337.5	10.7	694	3	AA223033	Aa223033	Human Sli
277	3083.5	98.4	673	8	ADG85452	Adg85452	Novel hum	350	333.5	10.6	590	3	AA230334	Aa230334	Human Sli
278	3083.5	98.4	673	8	ADG06246	Adg06246	Novel hum	351	333.5	10.6	590	6	ADA23289	Ada23289	Human SEC
279	3083.5	98.4	673	8	ADH30076	Adh30076	Novel hum	352	332.5	10.6	526	4	ABG04827	Abg04827	Novel hum
280	3083.5	98.4	673	8	ADH24388	Adh24388	Novel hum	353	330.5	10.5	653	2	AA28806	Aa28806	cc359.4 s
281	3083.5	98.4	673	8	ADG69517	Adg69517	Novel hum	354	330.5	10.5	653	3	AA28806	Aa28806	Membrane-
282	3083.5	98.4	673	8	ADH07780	Adh07780	Novel hum	355	330.5	10.5	653	3	AA24073	Aa24073	Human PRO
283	3083.5	98.4	673	8	ADG85792	Adg85792	Novel hum	356	330.5	10.5	653	4	AAU12390	Aau12390	Human PRO
284	3083.5	98.4	673	8	ADH39338	Adh39338	Novel hum	357	330.5	10.5	653	4	AAE09438	Aae09438	Human sbg
285	3083.5	98.4	673	8	ADH33530	Adh33530	Human PRO	358	330.5	10.5	653	4	AAE65217	Aae65217	Human PRO
286	3083.5	98.4	673	8	ADH33870	Adh33870	Human PRO	359	330.5	10.5	653	6	ABU58032	Abu58032	Human PRO
287	3083.5	98.4	673	8	ADH01080	Adh01080	Human PRO	360	330.5	10.5	653	6	ABU59110	Abu59110	Novel hum
288	3083.5	98.4	673	8	ADG69687	Adg69687	Novel hum	361	330.5	10.5	653	6	ABU82622	Abu82622	Human sec
289	3083.5	98.4	673	8	ADH20791	Adh20791	Human sec	362	330.5	10.5	653	6	ABU17834	Abu17834	Novel hum
290	3083.5	98.4	673	8	ADH02173	Adh02173	Human PRO	363	330.5	10.5	653	6	ABU60541	Abu60541	Human sec
291	3083.5	98.4	673	8	ADG69177	Adg69177	Novel hum	364	330.5	10.5	653	6	ABU13923	Abu13923	Human PRO
292	3083.5	98.4	673	8	ADG85362	Adg85362	Novel hum	365	330.5	10.5	653	6	ABU81088	Abu81088	Human PRO
293	3083.5	98.4	673	8	ADH24898	Adh24898	Novel hum	366	330.5	10.5	653	6	ABU72508	Abu72508	Novel hum
294	3083.5	98.4	673	8	ADH39515	Adh39515	Novel hum	367	330.5	10.5	653	6	ABU66788	Abu66788	Human PRO
295	3083.5	98.4	673	8	ADH19831	Adh19831	Human sec	368	330.5	10.5	653	6	AAO23105	Aao23105	NAG14 'hu
296	3083.5	98.4	673	8	ADH02513	Adh02513	Human PRO	369	330.5	10.5	653	6	ABU59869	Abu59869	Novel sec
297	3083.5	98.4	673	8	ADG69007	Adg69007	Novel hum	370	330.5	10.5	653	6	ABU59257	Abu59257	Human sec
298	3083.5	98.4	673	8	ADH07610	Adh07610	Novel hum	371	330.5	10.5	653	6	ABO25954	Ab025954	Human PRO
299	3083.5	98.4	673	8	ADG86132	Adg86132	Novel hum	372	330.5	10.5	653	6	ABO25059	Ab025059	Human sec
300	3083.5	98.4	673	8	ADH24728	Adh24728	Novel hum	373	330.5	10.5	653	6	ABU58963	Abu58963	Human sec
301	3083.5	98.4	673	8	ADH25776	Adh25776	Novel hum	374	330.5	10.5	653	6	ABU92341	Abu92341	Novel hum
302	3083.5	98.4	673	8	ADH38342	Adh38342	Novel hum	375	330.5	10.5	653	6	ABU59406	Abu59406	Novel hum
303	3083.5	98.4	673	8	ADH57181	Adh57181	Novel hum	376	330.5	10.5	653	6	ABU67064	Abu67064	Human sec
304	3083.5	98.4	673	8	ADH52169	Adh52169	Novel hum	377	330.5	10.5	653	6	ABU92172	Abu92172	Novel hum
305	3083.5	98.4	673	8	ADH49535	Adh49535	Novel hum	378	330.5	10.5	653	6	ABU10878	Abu10878	Human PRO
306	3083.5	98.4	673	8	ADH90497	Adh90497	Novel hum	379	330.5	10.5	653	6	ABU81630	Abu81630	Novel hum
307	3083.5	98.4	673	8	ADH11233	Adh11233	Human PRO	380	330.5	10.5	653	6	ABU88569	Abu88569	Human sec
308	3083.5	98.4	673	8	ADH98898	Adh98898	Novel hum	381	330.5	10.5	653	6	ABO34083	Ab034083	Human PRO
309	3083.5	98.4	673	8	ADH02328	Adh02328	Novel hum	382	330.5	10.5	653	6	ADA45957	Ada45957	Novel hum
310	3083.5	98.4	673	8	ADH90667	Adh90667	Novel hum	383	330.5	10.5	653	6	ADA76388	Ada76388	Human PRO
311	3083.5	98.4	673	8	ADJ98542	Adj98542	Novel hum	384	330.5	10.5	653	6	ADA19038	Ada19038	Human PRO
312	3083.5	98.4	673	8	ADJ98712	Adj98712	Novel hum	385	330.5	10.5	653	6	ADA61661	Ada61661	Homo sapi
313	3083.5	98.4	673	8	ADH78871	Adh78871	Novel hum	386	330.5	10.5	653	6	ADB19446	Adb19446	Novel hum
314	3083.5	98.4	673	8	ADJ99105	Adj99105	Novel hum	387	330.5	10.5	653	6	ADB27987	Adb27987	Human PRO
315	3083.5	98.4	673	8	ADJ99275	Adj99275	Novel hum	388	330.5	10.5	653	6	ADA86466	Ada86466	Novel hum
316	3083.5	98.4	673	8	ADJ98893	Adj98893	Novel hum	389	330.5	10.5	653	6	ADB16030	Adb16030	Human PRO
317	3083.5	98.4	673	8	ADH79041	Adh79041	Novel hum	390	330.5	10.5	653	6	ADA37740	Ada37740	Human sec

391	330	10.5	653	6	ADA47816	Ada47816 Human PRO	464	330	10.5	653	7	ADB86793	Adb86793 Human PRO
392	330	10.5	653	6	ADA21426	Ada21426 Human sec	465	330	10.5	653	7	ADB77398	Adb77398 Novel hum
393	330	10.5	653	6	ADA10213	Ada10213 Human sec	466	330	10.5	653	7	ADB34555	Adb34555 Human PRO
394	330	10.5	653	6	ADA67611	Ada67611 Human PRO	467	330	10.5	653	7	ADB35659	Adb35659 Human PRO
395	330	10.5	653	6	ADB30618	Adb30618 Human PRO	468	330	10.5	653	7	ADB34003	Adb34003 Human PRO
396	330	10.5	653	6	ADA85914	Ada85914 Novel hum	469	330	10.5	653	7	ADB35107	Adb35107 Human PRO
397	330	10.5	653	6	ADA17757	Ada17757 Human PRO	470	330	10.5	653	7	ADB36211	Adb36211 Human PRO
398	330	10.5	653	6	ADA97126	Ada97126 Human PRO	471	330	10.5	653	7	ADB46606	Adb46606 Novel hum
399	330	10.5	653	6	ADA79430	Ada79430 Human PRO	472	330	10.5	653	7	ADC57709	Adc57709 Human PRO
400	330	10.5	653	6	ADA87569	Ada87569 Novel hum	473	330	10.5	653	7	ADC55073	Adc55073 Human PRO
401	330	10.5	653	6	ADB16771	Adb16771 Human PRO	474	330	10.5	653	7	ADC11940	Adc11940 Human sec
402	330	10.5	653	6	ADA27865	Ada27865 Human sec	475	330	10.5	653	7	ADC56362	Adc56362 Human PRO
403	330	10.5	653	6	ADA91863	Ada91863 Novel hum	476	330	10.5	653	7	ADC07417	Adc07417 Human sec
404	330	10.5	653	6	ADB14926	Adb14926 Human PRO	477	330	10.5	653	7	ADC11407	Adc11407 Human sec
405	330	10.5	653	6	ADB18887	Adb18887 Novel hum	478	330	10.5	653	7	ADC50479	Adc50479 Novel hum
406	330	10.5	653	6	ADA94102	Ada94102 Human PRO	479	330	10.5	653	7	ADC72026	Adc72026 Novel hum
407	330	10.5	653	6	ADB19998	Adb19998 Novel hum	480	330	10.5	653	7	ADC60005	Adc60005 Novel hum
408	330	10.5	653	6	ADB13310	Adb13310 Human PRO	481	330	10.5	653	7	ADC53012	Adc53012 Novel hum
409	330	10.5	653	6	ABO43367	Abc43367 Novel hum	482	330	10.5	653	7	ADC57366	Adc57366 Novel hum
410	330	10.5	653	6	ADA94445	Ada94445 Human sec	483	330	10.5	653	7	ADC60557	Adc60557 Novel hum
411	330	10.5	653	6	ADA74564	Ada74564 Human PRO	484	330	10.5	653	7	ADC51032	Adc51032 Novel hum
412	330	10.5	653	6	ADB24797	Adb24797 Human PRO	485	330	10.5	653	7	ADC65559	Adc65559 Human PRO
413	330	10.5	653	6	ADA82321	Ada82321 Human PRO	486	330	10.5	653	7	ADC54657	Adc54657 Novel hum
414	330	10.5	653	6	ADA75284	Ada75284 Human PRO	487	330	10.5	653	7	ADC53618	Adc53618 Novel hum
415	330	10.5	653	6	ADA85362	Ada85362 Novel hum	488	330	10.5	653	7	ADC59141	Adc59141 Novel hum
416	330	10.5	653	6	ADA84810	Ada84810 Novel hum	489	330	10.5	653	7	ADC56019	Adc56019 Novel hum
417	330	10.5	653	6	ADB30066	Adb30066 Human PRO	490	330	10.5	653	7	ADC58589	Adc58589 Novel hum
418	330	10.5	653	6	ADA80594	Ada80594 Human PRO	491	330	10.5	653	7	ADC14529	Adc14529 Novel hum
419	330	10.5	653	6	ADA75836	Ada75836 Human PRO	492	330	10.5	653	7	ADD08061	Add08061 Novel hum
420	330	10.5	653	6	ADA38670	Ada38670 Human sec	493	330	10.5	653	7	ADD03263	Add03263 Novel hum
421	330	10.5	653	6	ADA47061	Ada47061 Human PRO	494	330	10.5	653	7	ADC90255	Adc90255 Novel hum
422	330	10.5	653	6	ADB25357	Adb25357 Human PRO	495	330	10.5	653	7	ADC81886	Adc81886 Human PRO
423	330	10.5	653	6	ADA93533	Ada93533 Human PRO	496	330	10.5	653	7	ADC69674	Adc69674 Human PRO
424	330	10.5	653	6	ADB26883	Adb26883 Human PRO	497	330	10.5	653	7	ADC48563	Adc48563 Human PRO
425	330	10.5	653	6	ADB31170	Adb31170 Human PRO	498	330	10.5	653	7	ADD10092	Add10092 Human PRO
426	330	10.5	653	6	ADA92791	Ada92791 Human sec	499	330	10.5	653	7	ADD07528	Add07528 Novel hum
427	330	10.5	653	6	ADA61098	Ada61098 Homo sapi	500	330	10.5	653	7	ADD04667	Add04667 Novel hum
428	330	10.5	653	6	ADB24245	Adb24245 Human PRO	501	330	10.5	653	7	ADC82419	Adc82419 Human PRO
429	330	10.5	653	6	ADA96574	Ada96574 Human PRO	502	330	10.5	653	7	ADC80623	Adc80623 Novel hum
430	330	10.5	653	6	ADA81146	Ada81146 Human PRO	503	330	10.5	653	7	ADD11130	Add11130 Human PRO
431	330	10.5	653	6	ADA96022	Ada96022 Human PRO	504	330	10.5	653	7	ADC48011	Adc48011 Human PRO
432	330	10.5	653	6	ADB26331	Adb26331 Human PRO	505	330	10.5	653	7	ADD08599	Add08599 Novel hum
433	330	10.5	653	6	ADB21816	Adb21816 Novel hum	506	330	10.5	653	7	ADC80071	Adc80071 Novel hum
434	330	10.5	653	7	ADA77595	Ada77595 Human PRO	507	330	10.5	653	7	ADD06848	Add06848 Novel hum
435	330	10.5	653	7	ADB18335	Adb18335 Human PRO	508	330	10.5	653	7	ADD09540	Add09540 Human PRO
436	330	10.5	653	7	ADA87018	Ada87018 Novel hum	509	330	10.5	653	7	ADC83095	Adc83095 Human PRO
437	330	10.5	653	7	ADA88121	Ada88121 Novel hum	510	330	10.5	653	7	ADD41253	Add41253 Novel hum
438	330	10.5	653	7	ADA46509	Ada46509 Novel hum	511	330	10.5	653	7	ADD52392	Add52392 Human PRO
439	330	10.5	653	7	ADB28539	Adb28539 Human PRO	512	330	10.5	653	7	ADD53132	Add53132 Human PRO
440	330	10.5	653	7	ADB29091	Adb29091 Human PRO	513	330	10.5	653	7	ADD53684	Add53684 Novel hum
441	330	10.5	653	7	ABO53169	Abc53169 Human sec	514	330	10.5	653	7	ADD55202	Add55202 Human PRO
442	330	10.5	653	7	ADA77043	Ada77043 Human PRO	515	330	10.5	653	7	ADD56160	Add56160 Human PRO
443	330	10.5	653	7	ADA22352	Ada22352 Human sec	516	330	10.5	653	7	ADD51840	Add51840 Human PRO
444	330	10.5	653	7	ADA88673	Ada88673 Novel hum	517	330	10.5	653	7	ADD02639	Add02639 Human PRO
445	330	10.5	653	7	ADA97678	Ada97678 Human PRO	518	330	10.5	653	7	ADD02073	Add02073 Human PRO
446	330	10.5	653	7	ADB27435	Adb27435 Human PRO	519	330	10.5	653	7	ADD54255	Add54255 Novel hum
447	330	10.5	653	7	ADB22368	Adb22368 Novel hum	520	330	10.5	653	7	ADD54598	Add54598 Human PRO
448	330	10.5	653	7	ABO22539	Abc22539 Human sec	521	330	10.5	653	7	ADD92572	Add92572 Human PRO
449	330	10.5	653	7	ADA06518	Ada06518 Human sec	522	330	10.5	653	7	ADD91468	Add91468 Human PRO
450	330	10.5	653	7	ADA39211	Ada39211 Human sec	523	330	10.5	653	7	ADE04082	Ade04082 Human PRO
451	330	10.5	653	7	ADA67059	Ada67059 Human PRO	524	330	10.5	653	7	ADE26752	Ade26752 Novel hum
452	330	10.5	653	7	ADB22920	Adb22920 Human PRO	525	330	10.5	653	7	ADE32379	Ade32379 Novel hum
453	330	10.5	653	7	ADB23693	Adb23693 Human PRO	526	330	10.5	653	7	ADE22311	Ade22311 Human PRO
454	330	10.5	653	7	ADA92415	Ada92415 Novel hum	527	330	10.5	653	7	ADD79535	Add79535 Human PRO
455	330	10.5	653	7	ADB15478	Adb15478 Human PRO	528	330	10.5	653	7	ADE42071	Ade42071 Human PRO
456	330	10.5	653	7	ADB38730	Adb38730 Novel hum	529	330	10.5	653	7	ADE17888	Ade17888 Human PRO
457	330	10.5	653	7	ADB96237	Adb96237 Human PRO	530	330	10.5	653	7	ADD92020	Add92020 Human PRO
458	330	10.5	653	7	ADB38178	Adb38178 Novel hum	531	330	10.5	653	7	ADD33483	Add33483 Novel hum
459	330	10.5	653	7	ADB66650	Adb66650 Novel hum	532	330	10.5	653	7	ADE34035	Ade34035 Novel hum
460	330	10.5	653	7	ADB89730	Adb89730 Human PRO	533	330	10.5	653	7	ADD80087	Add80087 Human PRO
461	330	10.5	653	7	ADB90462	Adb90462 Human PRO	534	330	10.5	653	7	ADD93124	Add93124 Human PRO
462	330	10.5	653	7	ADB39563	Adb39563 Novel hum	535	330	10.5	653	7	ADE19544	Ade19544 Human PRO
463	330	10.5	653	7	ADB47186	Adb47186 Novel hum	536	330	10.5	653	7	ADE18992	Ade18992 Human PRO

537	330	10.5	653	7	AD543188	Human	PRO	Ade43188	Human	PRO	610	330	10.5	653	8	ADG07268	Novel	hum
538	330	10.5	653	7	AD595977	Human	PRO	Ade59777	Human	PRO	611	330	10.5	653	8	ADG07820	Novel	hum
539	330	10.5	653	7	AD522863	Human	PRO	Ade22863	Human	PRO	612	330	10.5	653	8	ADG55315	Novel	hum
540	330	10.5	653	7	AD778981	Human	PRO	Ade778981	Human	PRO	613	330	10.5	653	8	ADG60979	Novel	hum
541	330	10.5	653	7	AD526219	Novel	hum	Ade26219	Novel	hum	614	330	10.5	653	8	ADG62083	Novel	hum
542	330	10.5	653	7	AD532931	Novel	hum	Ade32931	Novel	hum	615	330	10.5	653	8	ADG82284	Human	PRO
543	330	10.5	653	7	AD542623	Human	PRO	Ade42623	Human	PRO	616	330	10.5	653	8	ADG57523	Novel	hum
544	330	10.5	653	7	AD580639	Human	PRO	Ade80639	Human	PRO	617	330	10.5	653	8	ADG56971	Novel	hum
545	330	10.5	653	7	AD589667	Human	PRO	Ade89667	Human	PRO	618	330	10.5	653	8	ADG55867	Novel	hum
546	330	10.5	653	7	AD540951	Human	PRO	Ade40951	Human	PRO	619	330	10.5	653	8	ADG58627	Novel	hum
547	330	10.5	653	7	AD504750	Human	PRO	Ade04750	Human	PRO	620	330	10.5	653	8	ADG70993	Novel	hum
548	330	10.5	653	7	AD592879	Human	PRO	Ade92879	Human	PRO	621	330	10.5	653	8	ADG58075	Novel	hum
549	330	10.5	653	7	AD567156	Human	PRO	Ade67156	Human	PRO	622	330	10.5	653	8	ADG53659	Novel	hum
550	330	10.5	653	7	AD521588	Novel	hum	Ade21588	Novel	hum	623	330	10.5	653	8	ADG71545	Novel	hum
551	330	10.5	653	7	AD523229	Novel	hum	Ade23229	Novel	hum	624	330	10.5	653	8	ADG81732	Human	PRO
552	330	10.5	653	7	AD597564	Human	PRO	Ade97564	Human	PRO	625	330	10.5	653	8	ADH19475	Human	sec
553	330	10.5	653	7	AD580628	Human	PRO	Ade80628	Human	PRO	626	330	10.5	653	8	ADH30694	Human	PRO
554	330	10.5	653	7	AD580076	Human	PRO	Ade80076	Human	PRO	627	330	10.5	653	8	ADH12061	Novel	hum
555	330	10.5	653	7	AD553368	Novel	hum	Ade55368	Novel	hum	628	330	10.5	653	8	ADG52483	Novel	hum
556	330	10.5	653	7	AD555920	Novel	hum	Ade55920	Novel	hum	629	330	10.5	653	8	ADG54211	Novel	hum
557	330	10.5	653	7	AD5135410	Human	PRO	Ade135410	Human	PRO	630	330	10.5	653	8	ADG81180	Human	PRO
558	330	10.5	653	7	AD5164139	Novel	hum	Ade164139	Novel	hum	631	330	10.5	653	8	ADG56419	Novel	hum
559	330	10.5	653	7	AD5165088	Novel	hum	Ade165088	Novel	hum	632	330	10.5	653	8	ADH12685	Novel	hum
560	330	10.5	653	7	AD5163587	Novel	hum	Ade163587	Novel	hum	633	330	10.5	653	8	ADH20968	Human	sec
561	330	10.5	653	7	AD582001	Novel	hum	Ade82001	Novel	hum	634	330	10.5	653	8	ADG61531	Novel	hum
562	330	10.5	653	7	AD599902	Novel	hum	Ade99902	Novel	hum	635	330	10.5	653	8	ADH20008	Human	sec
563	330	10.5	653	7	AD581449	Novel	hum	Ade81449	Novel	hum	636	330	10.5	653	8	ADH28618	Human	PRO
564	330	10.5	653	7	AD5164139	Novel	hum	Ade164139	Novel	hum	637	330	10.5	653	8	ADG54763	Novel	hum
565	330	10.5	653	7	AD516017	Novel	hum	Ade16017	Novel	hum	638	330	10.5	653	8	ADG59803	Novel	hum
566	330	10.5	653	7	AD516646	Novel	hum	Ade16646	Novel	hum	639	330	10.5	653	8	ADH181227	Human	PRO
567	330	10.5	653	7	AD515465	Novel	hum	Ade15465	Novel	hum	640	330	10.5	653	8	ADG09970	Novel	hum
568	330	10.5	653	7	AD514913	Novel	hum	Ade14913	Novel	hum	641	330	10.5	653	8	ADH15441	Novel	hum
569	330	10.5	653	8	AD51175	Novel	hum	Ade81175	Novel	hum	642	330	10.5	653	8	ADG09318	Novel	hum
570	330	10.5	653	8	AD576623	Human	PRO	Ade76623	Human	PRO	643	330	10.5	653	8	ADH14773	Novel	hum
571	330	10.5	653	8	AD587987	Human	PRO	Ade87987	Human	PRO	644	330	10.5	653	8	ADH18368	Novel	hum
572	330	10.5	653	8	AD586391	Human	PRO	Ade86391	Human	PRO	645	330	10.5	653	8	ADJ63649	Novel	hum
573	330	10.5	653	8	AD575839	Human	PRO	Ade75839	Human	PRO	646	330	10.5	653	8	ADJ77544	Human	PRO
574	330	10.5	653	8	AD523415	Human	PRO	Ade23415	Human	PRO	647	330	10.5	653	8	ADJ65666	Human	PRO
575	330	10.5	653	8	AD523967	Human	PRO	Ade23967	Human	PRO	648	330	10.5	653	8	ADM27802	Human	PRO
576	330	10.5	653	8	AD524610	Human	PRO	Ade24610	Human	PRO	649	330	10.5	653	8	ADM42526	Human	PRO
577	330	10.5	653	8	AD587435	Human	PRO	Ade87435	Human	PRO	650	330	10.5	653	8	ADM28388	Human	PRO
578	330	10.5	653	8	AD589301	Human	PRO	Ade89301	Human	PRO	651	330	10.5	653	8	ADH195870	Human	PRO
579	330	10.5	653	8	AD518440	Human	PRO	Ade18440	Human	PRO	652	330	10.5	653	8	ADH196422	Novel	hum
580	330	10.5	653	8	AD588749	Human	PRO	Ade88749	Human	PRO	653	329.5	10.5	775	6	ABU12069	Human	NOV
581	330	10.5	653	8	AD594769	Human	PRO	Ade94769	Human	PRO	654	329	10.5	649	5	ABG98014	Human	leu
582	330	10.5	653	8	AD591180	Human	PRO	Ade91180	Human	PRO	655	328.5	10.5	627	5	ABG34079	Human	PRO
583	330	10.5	653	8	AD535355	Human	PRO	Ade35355	Human	PRO	656	328.5	10.5	627	6	ADA01368	Human	PRO
584	330	10.5	653	8	AD595321	Human	PRO	Ade95321	Human	PRO	657	328.5	10.5	627	6	ADA43797	Human	sec
585	330	10.5	653	8	AD593431	Human	PRO	Ade93431	Human	PRO	658	328.5	10.5	627	6	ADA43565	Human	sec
586	330	10.5	653	8	AD523012	Human	PRO	Ade23012	Human	PRO	659	328.5	10.5	627	6	ADA01240	Human	PRO
587	330	10.5	653	8	AD592327	Novel	hum	Ade92327	Novel	hum	660	328.5	10.5	627	7	ADA01124	Human	sec
588	330	10.5	653	8	AD590628	Human	PRO	Ade90628	Human	PRO	661	328.5	10.5	627	7	ADA43681	Human	sec
589	330	10.5	653	8	AD591775	Novel	hum	Ade91775	Novel	hum	662	328.5	10.5	627	7	ADA06943	Human	PRO
590	330	10.5	653	8	AD511605	Human	PRO	Ade11605	Human	PRO	663	328.5	10.5	627	7	ADA08431	Novel	hum
591	330	10.5	653	8	AD502354	Human	PRO	Ade02354	Human	PRO	664	328.5	10.5	627	7	ADH99724	Human	PRO
592	330	10.5	653	8	AD522140	Novel	hum	Ade22140	Novel	hum	665	328.5	10.5	627	7	ADH87007	Human	PRO
593	330	10.5	653	8	AD520210	Human	PRO	Ade20210	Human	PRO	666	328.5	10.5	627	7	ADH66162	Human	sec
594	330	10.5	653	8	AD598116	Human	PRO	Ade98116	Human	PRO	667	328.5	10.5	627	7	ADH99840	Human	PRO
595	330	10.5	653	8	AD524333	Novel	hum	Ade24333	Novel	hum	668	328.5	10.5	627	7	ADH99495	Novel	hum
596	330	10.5	653	8	AD598687	Human	PRO	Ade98687	Human	PRO	669	328.5	10.5	627	7	ADH66046	Human	sec
597	330	10.5	653	8	AD503518	Human	PRO	Ade03518	Human	PRO	670	328.5	10.5	627	7	ADC23444	Human	tra
598	330	10.5	653	8	AD599239	Human	PRO	Ade99239	Human	PRO	671	328.5	10.5	627	7	ADC26137	Human	PRO
599	330	10.5	653	8	AD516824	Human	PRO	Ade16824	Human	PRO	672	328.5	10.5	627	7	ADE04964	Human	PRO
600	330	10.5	653	8	AD505283	Human	PRO	Ade05283	Human	PRO	673	328.5	10.5	627	7	ADH11270	Human	PRO
601	330	10.5	653	8	AD519550	Human	PRO	Ade19550	Human	PRO	674	328.5	10.5	627	7	ADH88201	Human	PRO
602	330	10.5	653	8	AD513387	Human	PRO	Ade13387	Human	PRO	675	328.5	10.5	627	7	ADH95496	Human	sec
603	330	10.5	653	8	AD508444	Novel	hum	Ade08444	Novel	hum	676	328.5	10.5	627	7	ADH506426	Human	PRO
604	330	10.5	653	8	AD515614	Human	PRO	Ade15614	Human	PRO	677	328.5	10.5	627	7	ADH38201	Human	PRO
605	330	10.5	653	8	AD597012	Human	PRO	Ade97012	Human	PRO	678	328.5	10.5	627	7	ADH88317	Human	PRO
606	330	10.5	653	8	AD506197	Human	PRO	Ade06197	Human	PRO	679	328.5	10.5	627	7	ADH90898	Human	sec
607	330	10.5	653	8	AD523781	Novel	hum	Ade23781	Novel	hum	680	328.5	10.5	627	7	ADH99453	Human	sec
608	330	10.5	653	8	AD504070	Human	PRO	Ade04070	Human	PRO	681	328.5	10.5	627	7	ADG06546	Human	PRO
609	330	10.5	653	8	AD524971	Novel	hum	Ade24971	Novel	hum	682	328.5	10.5	627	7	ADG05497	Human	PRO

683	328.5	10.5	627	7	ADG82498	Human	PRO	Adg82498	Human	PRO	756	321	10.2	628	8	ADH71652	Human	PRO	Adh71652	Human	PRO
684	328.5	10.5	627	8	ADH51751	Human	sec	Adh51751	Human	sec	757	321	10.2	628	8	ADH71654	Human	PRO	Adh71654	Human	PRO
685	328.5	10.5	627	8	ADH51867	Human	sec	Adh51867	Human	sec	758	321	10.2	628	8	ABO84502	Human	can	AbO84502	Human	can
686	328.5	10.5	627	8	ADH37725	Human	sec	Adh37725	Human	sec	759	321	10.2	628	8	ABO84503	Human	can	AbO84503	Human	can
687	328.5	10.5	627	8	ADH37609	Human	sec	Adh37609	Human	sec	760	321	10.2	628	8	ABO84501	Human	can	AbP70928	Human	LP3
688	328.5	10.5	627	8	ADH95380	Human	sec	Adh95380	Human	sec	761	321	10.2	762	6	ABP70928	Human	LP3	Adi36917	Human	LRR
689	328.5	10.5	627	8	ADH38080	Human	PRO	Adh38080	Human	PRO	762	321	10.2	797	2	ADI36917	Human	LRR	Aay13349	Amino	aci
690	328.5	10.5	627	8	ADH76169	Human	PRO	Adh76169	Human	PRO	763	320	10.2	660	2	AAI33349	Amino	aci	Adc78348	Human	PRO
691	328.5	10.5	627	8	ADH39492	Human	PRO	Adh39492	Human	PRO	764	320	10.2	660	3	ADC78348	Human	PRO	Abb80217	Human	PRO
692	328.5	10.5	627	8	ADE04296	Human	PRO	AdE04296	Human	PRO	765	320	10.2	660	4	AAB80217	Human	PRO	Aau12346	Amino	aci
693	328.5	10.5	627	8	ADH39893	Human	PRO	Adh39893	Human	PRO	766	320	10.2	660	4	AAH31208	Amino	aci	Abb8439	Human	PRO
694	328.5	10.5	627	8	ADE19758	Human	PRO	AdE19758	Human	PRO	767	320	10.2	660	4	AAU12346	Amino	aci	Abu71450	Human	PRO
695	328.5	10.5	627	8	ADH77336	Human	sec	Adh77336	Human	sec	768	320	10.2	660	5	ABB84839	Human	PRO	Abu67297	Novel	hum
696	328.5	10.5	627	8	ADH65444	Human	PRO	Adh65444	Human	PRO	769	320	10.2	660	5	ABB95445	Human	ang	Abu71595	Human	PRO
697	328.5	10.5	627	8	ADH76053	Human	PRO	Adh76053	Human	PRO	770	320	10.2	660	6	ABO17790	Novel	hum	Abu71595	Human	PRO
698	328.5	10.5	627	8	ADH37964	Human	PRO	Adh37964	Human	PRO	771	320	10.2	660	6	ABO17790	Novel	hum	Abu71595	Human	PRO
699	328.5	10.5	627	8	ADH64574	Human	PRO	Adh64574	Human	PRO	772	320	10.2	660	6	ABO25179	Novel	hum	Abu71450	Human	PRO
700	328.5	10.5	627	8	ADH38909	Human	PRO	Adh38909	Human	PRO	773	320	10.2	660	6	ABO25179	Novel	hum	Abu71450	Human	PRO
701	328.5	10.5	627	8	ADH51983	Human	sec	Adh51983	Human	sec	774	320	10.2	660	6	ABU81044	Human	PRO	Abu81044	Human	PRO
702	328.5	10.5	627	8	ADH91014	Human	sec	Adh91014	Human	sec	775	320	10.2	660	6	ABU71896	Human	sec	Abu71896	Human	sec
703	328.5	10.5	627	8	ADH38793	Human	PRO	Adh38793	Human	PRO	776	320	10.2	660	6	ABO01779	Novel	hum	Abu66744	Human	PRO
704	328.5	10.5	627	8	ADH37493	Human	sec	Adh37493	Human	sec	777	320	10.2	660	6	ABU66744	Human	PRO	Abu66744	Human	PRO
705	328.5	10.5	627	8	ADH06309	Human	PRO	Adh06309	Human	PRO	778	320	10.2	660	6	ABU54352	Human	sec	Abu54352	Human	sec
706	328.5	10.5	627	8	ADH90169	Human	sec	Adh90169	Human	sec	779	320	10.2	660	6	ABU67297	Novel	hum	Abu67297	Novel	hum
707	328.5	10.5	627	8	ADH39677	Human	PRO	Adh39677	Human	PRO	780	320	10.2	660	6	AAO23116	FLRT2	'hu	Aao23116	FLRT2	'hu
708	328.5	10.5	627	8	ADH39608	Human	PRO	Adh39608	Human	PRO	781	320	10.2	660	6	ABO47367	Human	sec	AbO47367	Human	sec
709	328.5	10.5	627	8	ADH89213	Human	PRO	Adh89213	Human	PRO	782	320	10.2	660	6	ABO47367	Human	sec	Abu59825	Novel	sec
710	328.5	10.5	627	8	ADH89980	Human	PRO	Adh89980	Human	PRO	783	320	10.2	660	6	ABO25015	Human	sec	Abu59825	Novel	sec
711	328.5	10.5	627	8	ADH19874	Human	PRO	Adh19874	Human	PRO	784	320	10.2	660	6	ABU64504	Human	sec	Abu64504	Human	sec
712	328.5	10.5	627	8	ADH77452	Human	sec	Adh77452	Human	sec	785	320	10.2	660	6	ABU72065	Novel	hum	Abu72065	Novel	hum
713	328.5	10.5	627	8	ADH65328	Human	PRO	Adh65328	Human	PRO	786	320	10.2	660	6	ABU67350	Human	sec	Abu67350	Human	sec
714	328.5	10.5	627	8	ADH39376	Human	PRO	Adh39376	Human	PRO	787	320	10.2	660	6	ABU67166	Novel	hum	Abu67166	Novel	hum
715	328.5	10.5	627	8	ADH38561	Human	sec	Adh38561	Human	sec	788	320	10.2	660	6	ABO14870	Human	sec	AbO14870	Human	sec
716	328.5	10.5	627	8	ADG11114	Human	sec	AdG11114	Human	sec	789	320	10.2	660	6	ABU67020	Human	sec	Abu67020	Human	sec
717	328.5	10.5	627	8	ADH10998	Human	sec	Adh10998	Human	sec	790	320	10.2	660	6	ABU69627	Novel	hum	Abu69627	Novel	hum
718	328.5	10.5	627	8	ADH31526	Human	PRO	Adh31526	Human	PRO	791	320	10.2	660	6	ABU79808	Human	sec	Abu79808	Human	sec
719	328.5	10.5	627	8	ADH38774	Human	sec	Adh38774	Human	sec	792	320	10.2	660	6	ABO14809	Human	sec	AbO14809	Human	sec
720	328.5	10.5	627	8	ADH29409	Human	sec	Adh29409	Human	sec	793	320	10.2	660	6	ADA45869	Novel	hum	Ada45869	Novel	hum
721	328.5	10.5	627	8	ADH23712	Human	sec	Adh23712	Human	sec	794	320	10.2	660	6	ADA76300	Human	PRO	Ada76300	Human	PRO
722	328.5	10.5	627	8	ADH27042	Human	sec	Adh27042	Human	sec	795	320	10.2	660	6	ADB29233	Human	sec	AdB29233	Human	sec
723	328.5	10.5	627	8	ADH38310	Novel	hum	Adh38310	Novel	hum	796	320	10.2	660	6	ADA18950	Human	PRO	Ada18950	Human	PRO
724	328.5	10.5	627	8	ADH26926	Human	sec	Adh26926	Human	sec	797	320	10.2	660	6	ADA61573	Homo sapi		Ada61573	Homo sapi	
725	328.5	10.5	627	8	ADH38194	Novel	hum	Adh38194	Novel	hum	798	320	10.2	660	6	ADB19358	Novel	hum	Adb19358	Novel	hum
726	328.5	10.5	627	8	ADH38890	Human	sec	Adh38890	Human	sec	799	320	10.2	660	6	ADB27899	Human	PRO	Adb27899	Human	PRO
727	328.5	10.5	627	8	ADH38828	Human	sec	Adh38828	Human	sec	800	320	10.2	660	6	ADA86378	Novel	hum	Ada86378	Novel	hum
728	328.5	10.5	627	8	ADH40203	Human	PRO	Adh40203	Human	PRO	801	320	10.2	660	6	ADB15942	Human	PRO	AdB15942	Human	PRO
729	328.5	10.5	627	8	ADH40088	Human	PRO	Adh40088	Human	PRO	802	320	10.2	660	6	ADA47728	Human	PRO	Ada47728	Human	PRO
730	328.5	10.5	627	8	ADH31410	Human	PRO	Adh31410	Human	PRO	803	320	10.2	660	6	ADA18089	Human	sec	Ada18089	Human	sec
731	328.5	10.5	627	8	ADH29288	Human	sec	Adh29288	Human	sec	804	320	10.2	660	6	ABO32761	Human	sec	AbO32761	Human	sec
732	328.5	10.5	627	8	ADH43503	Novel	hum	Adh43503	Novel	hum	805	320	10.2	660	6	ADA67523	Human	PRO	Ada67523	Human	PRO
733	328.5	10.5	627	8	ADH51967	Novel	hum	Adh51967	Novel	hum	806	320	10.2	660	6	ADB30530	Human	PRO	AdB30530	Human	PRO
734	328.5	10.5	627	8	ADH49822	Novel	hum	Adh49822	Novel	hum	807	320	10.2	660	6	ADA85826	Novel	hum	Ada85826	Novel	hum
735	328.5	10.5	627	8	ADH52423	Novel	hum	Adh52423	Novel	hum	808	320	10.2	660	6	ADA97038	Human	PRO	Ada97038	Human	PRO
736	328.5	10.5	627	8	ADH52539	Novel	hum	Adh52539	Novel	hum	809	320	10.2	660	6	ADA79342	Human	PRO	Ada79342	Human	PRO
737	328.5	10.5	627	8	ADH58536	Novel	hum	Adh58536	Novel	hum	810	320	10.2	660	6	ADA87481	Novel	hum	Ada87481	Novel	hum
738	328.5	10.5	627	8	ADH51851	Novel	hum	Adh51851	Novel	hum	811	320	10.2	660	6	ABD16683	Human	PRO	Abd16683	Human	PRO
739	328.5	10.5	627	8	ADH58412	Novel	hum	Adh58412	Novel	hum	812	320	10.2	660	6	ABO34821	Human	PRO	AbO34821	Human	PRO
740	328.5	10.5	627	8	ADH13609	Novel	hum	Adh13609	Novel	hum	813	320	10.2	660	6	ADA16064	Human	sec	Ada16064	Human	sec
741	328.5	10.5	627	8	ADK00865	Human	PRO	Adk00865	Human	PRO	814	320	10.2	660	6	ADA91775	Novel	hum	Ada91775	Novel	hum
742	328.5	10.5	627	8	ADL08606	Human	sec	Adl08606	Human	sec	815	320	10.2	660	6	ADB14838	Human	PRO	AdB14838	Human	PRO
743	327.5	10.4	636	4	AAU32870	Novel	hum	Aau32870	Novel	hum	816	320	10.2	660	6	ADA47287	Human	sec	Ada47287	Human	sec
744	324	10.3	626	8	ABO84499	Mouse	can	AbO84499	Mouse	can	817	320	10.2	660	6	ADB18799	Novel	hum	Adb18799	Novel	hum
745	324	10.3	628	4	AAH65805	Human	Leu	AaH65805	Human	Leu	818	320	10.2	660	6	ADA94014	Human	PRO	Ada94014	Human	PRO
746	322.5	10.3	810	7	ADN95165	Human	BEC	Adn95165	Human	BEC	819	320	10.2	660	6	ADB19910	Novel	hum	AdB19910	Novel	hum
747	322.5	10.3	811	6	ABR58642	Human	can	AbR58642	Human	can	820	320	10.2	660	6	ADB13222	Human	PRO	AdB13222	Human	PRO
748	322.5	10.3	811	6	AAO23114	Human	can	Aao23114	Human	can	821	320	10.2	660	6	ABO43323	Novel	hum	AbO43323	Novel	hum
749	322.5	10.3	811	7	ADN95110	Human	LFC	Adn95110	Human	LFC	822	320	10.2	660	6	ADA74476	Human	PRO	Ada74476	Human	PRO
750	322.5	10.3	811	8	AQD21196	Human	sof	Aqd21196	Human	sof	823	320	10.2	660	6	ADA42209	Human	sec	Ada42209		

829	320	10.2	660	6	AB017499	Ab017499 Human PRO	902	320	10.2	660	7	ADC60469	Adc60469 Novel hum
830	320	10.2	660	6	ADB29978	AdB29978 Human PRO	903	320	10.2	660	7	ADC50944	Adc50944 Novel hum
831	320	10.2	660	6	ADA80506	Ada80506 Human PRO	904	320	10.2	660	7	ADC65471	Adc65471 Human PRO
832	320	10.2	660	6	ADA75748	Ada75748 Human PRO	905	320	10.2	660	7	ADC54569	Adc54569 Novel hum
833	320	10.2	660	6	ADA46973	Ada46973 Human PRO	906	320	10.2	660	7	ADC53530	Adc53530 Novel hum
834	320	10.2	660	6	ADB25269	AdB25269 Human PRO	907	320	10.2	660	7	ADC59053	Adc59053 Novel hum
835	320	10.2	660	6	ADA93445	Ada93445 Human PRO	908	320	10.2	660	7	ADC55931	Adc55931 Novel hum
836	320	10.2	660	6	ADB26795	AdB26795 Human PRO	909	320	10.2	660	7	ADC58501	Adc58501 Novel hum
837	320	10.2	660	6	ADB31082	AdB31082 Human PRO	910	320	10.2	660	7	ADC12272	Adc12272 Human sec
838	320	10.2	660	6	ADA61010	Ada61010 Homo sapi	911	320	10.2	660	7	ADC03175	Adc03175 Novel hum
839	320	10.2	660	6	ADB24157	AdB24157 Human PRO	912	320	10.2	660	7	ADC90167	Adc90167 Novel hum
840	320	10.2	660	6	ADA96486	Ada96486 Human PRO	913	320	10.2	660	7	ADC69586	Adc69586 Human PRO
841	320	10.2	660	6	ADA81058	Ada81058 Human PRO	914	320	10.2	660	7	ADC48475	Adc48475 Human PRO
842	320	10.2	660	6	ADA95934	Ada95934 Human PRO	915	320	10.2	660	7	ADD10004	AdD10004 Human PRO
843	320	10.2	660	6	ADB26243	AdB26243 Human PRO	916	320	10.2	660	7	ADD04579	AdD04579 Novel hum
844	320	10.2	660	6	ADB21728	AdB21728 Novel hum	917	320	10.2	660	7	ADC80535	Adc80535 Novel hum
845	320	10.2	660	7	ADA77507	Ada77507 Human PRO	918	320	10.2	660	7	ADD11042	AdD11042 Human PRO
846	320	10.2	660	7	ADB18247	AdB18247 Human PRO	919	320	10.2	660	7	ADD10335	AdD10335 Human sec
847	320	10.2	660	7	ADA86930	Ada86930 Novel hum	920	320	10.2	660	7	ADC47923	Adc47923 Human PRO
848	320	10.2	660	7	ADA16488	Ada16488 Human sec	921	320	10.2	660	7	ADD04827	AdD04827 Human PRO
849	320	10.2	660	7	ADA12917	Ada12917 Human sec	922	320	10.2	660	7	ADC79983	Adc79983 Novel hum
850	320	10.2	660	7	ADA41785	Ada41785 Human sec	923	320	10.2	660	7	ADD11295	AdD11295 Human sec
851	320	10.2	660	7	ADA88033	Ada88033 Novel hum	924	320	10.2	660	7	ADD09452	AdD09452 Human PRO
852	320	10.2	660	7	ADA46421	Ada46421 Novel hum	925	320	10.2	660	7	ADD03833	AdD03833 Human sec
853	320	10.2	660	7	ADA17132	Ada17132 Human sec	926	320	10.2	660	7	ADD03409	AdD03409 Human sec
854	320	10.2	660	7	ADA42635	Ada42635 Human sec	927	320	10.2	660	7	ADD41165	AdD41165 Novel hum
855	320	10.2	660	7	ADB28451	AdB28451 Human PRO	928	320	10.2	660	7	ADD52304	AdD52304 Human PRO
856	320	10.2	660	7	ADB29003	AdB29003 Human PRO	929	320	10.2	660	7	ADD53044	AdD53044 Human PRO
857	320	10.2	660	7	ADA76955	Ada76955 Human PRO	930	320	10.2	660	7	ADD53596	AdD53596 Novel hum
858	320	10.2	660	7	ADA88585	Ada88585 Novel hum	931	320	10.2	660	7	ADD37088	AdD37088 Human sec
859	320	10.2	660	7	ADA97590	Ada97590 Human PRO	932	320	10.2	660	7	ADD51752	AdD51752 Human PRO
860	320	10.2	660	7	ADB27347	AdB27347 Human PRO	933	320	10.2	660	7	ADD02551	AdD02551 Human PRO
861	320	10.2	660	7	ADB22280	AdB22280 Novel hum	934	320	10.2	660	7	ADD01985	AdD01985 Human PRO
862	320	10.2	660	7	AB011986	Ab011986 Human sec	935	320	10.2	660	7	ADD54167	AdD54167 Novel hum
863	320	10.2	660	7	AB017560	Ab017560 Human PRO	936	320	10.2	660	7	ADD92484	AdD92484 Human PRO
864	320	10.2	660	7	ADA66971	Ada66971 Human PRO	937	320	10.2	660	7	ADD91380	AdD91380 Human PRO
865	320	10.2	660	7	ADB22832	AdB22832 Human PRO	938	320	10.2	660	7	ADE03994	AdE03994 Human PRO
866	320	10.2	660	7	ADB23605	AdB23605 Human PRO	939	320	10.2	660	7	ADE32291	AdE32291 Novel hum
867	320	10.2	660	7	ADA92337	Ada92337 Novel hum	940	320	10.2	660	7	ADE22223	AdE22223 Human PRO
868	320	10.2	660	7	ADB15390	AdB15390 Human PRO	941	320	10.2	660	7	ADD79447	AdD79447 Human PRO
869	320	10.2	660	7	ADB38642	AdB38642 Novel hum	942	320	10.2	660	7	ADE41983	AdE41983 Human PRO
870	320	10.2	660	7	ADB38090	AdB38090 Novel hum	943	320	10.2	660	7	ADE17800	AdE17800 Human PRO
871	320	10.2	660	7	ADB66562	AdB66562 Novel hum	944	320	10.2	660	7	ADD91932	AdD91932 Human PRO
872	320	10.2	660	7	ADB89642	AdB89642 Human PRO	945	320	10.2	660	7	ADE33395	AdE33395 Novel hum
873	320	10.2	660	7	ADB990374	AdB990374 Human PRO	946	320	10.2	660	7	ADE33947	AdE33947 Novel hum
874	320	10.2	660	7	ADB77554	AdB77554 Human sec	947	320	10.2	660	7	ADD79999	AdD79999 Human PRO
875	320	10.2	660	7	ADB39475	AdB39475 Novel hum	948	320	10.2	660	7	ADD93036	AdD93036 Human PRO
876	320	10.2	660	7	ADB74690	AdB74690 Human sec	949	320	10.2	660	7	ADE19456	AdE19456 Human PRO
877	320	10.2	660	7	ADB47098	AdB47098 Novel hum	950	320	10.2	660	7	ADE34661	AdE34661 Human sec
878	320	10.2	660	7	ADB86705	AdB86705 Human PRO	951	320	10.2	660	7	ADE18904	AdE18904 Human PRO
879	320	10.2	660	7	ADB77310	AdB77310 Novel hum	952	320	10.2	660	7	ADE43100	AdE43100 Human PRO
880	320	10.2	660	7	ADB34467	AdB34467 Human PRO	953	320	10.2	660	7	ADD95889	AdD95889 Human PRO
881	320	10.2	660	7	ADB35571	AdB35571 Human PRO	954	320	10.2	660	7	ADE22775	AdE22775 Human PRO
882	320	10.2	660	7	ADB33915	AdB33915 Human PRO	955	320	10.2	660	7	ADD78893	AdD78893 Human PRO
883	320	10.2	660	7	ADB35019	AdB35019 Human PRO	956	320	10.2	660	7	ADE32843	AdE32843 Novel hum
884	320	10.2	660	7	ADB36123	AdB36123 Human PRO	957	320	10.2	660	7	ADE42535	AdE42535 Human PRO
885	320	10.2	660	7	ADB46518	AdB46518 Novel hum	958	320	10.2	660	7	ADD80551	AdD80551 Human PRO
886	320	10.2	660	7	ADC28336	Adc28336 Human sec	959	320	10.2	660	7	ADD89579	AdD89579 Human PRO
887	320	10.2	660	7	ADC39536	Adc39536 Human sec	960	320	10.2	660	7	ADE40863	AdE40863 Human PRO
888	320	10.2	660	7	ADC40050	Adc40050 Human sec	961	320	10.2	660	7	ADE04662	AdE04662 Human PRO
889	320	10.2	660	7	ADC18878	Adc18878 Human sec	962	320	10.2	660	7	ADE92791	AdE92791 Human PRO
890	320	10.2	660	7	ADC34174	Adc34174 Human sec	963	320	10.2	660	7	ADG21500	AdG21500 Novel hum
891	320	10.2	660	7	ADC29229	Adc29229 Human sec	964	320	10.2	660	7	ADG23141	AdG23141 Novel hum
892	320	10.2	660	7	ADC28760	Adc28760 Human sec	965	320	10.2	660	7	Adf97476	Adf97476 Human PRO
893	320	10.2	660	7	ADC40645	Adc40645 Human sec	966	320	10.2	660	7	ADG80540	AdG80540 Human PRO
894	320	10.2	660	7	ADC19302	Adc19302 Human sec	967	320	10.2	660	7	ADG79988	AdG79988 Human PRO
895	320	10.2	660	7	ADC33750	Adc33750 Human sec	968	320	10.2	660	7	ADG63796	AdG63796 Human sec
896	320	10.2	660	7	ADC12820	Adc12820 Human sec	969	320	10.2	660	7	ADH59144	AdH59144 Human sec
897	320	10.2	660	7	ADC50391	Adc50391 Novel hum	970	320	10.2	660	7	ADH55280	AdH55280 Novel hum
898	320	10.2	660	7	ADC71938	Adc71938 Novel hum	971	320	10.2	660	7	ADH55832	AdH55832 Novel hum
899	320	10.2	660	7	ADC59917	Adc59917 Novel hum	972	320	10.2	660	7	AD137923	Ad137923 Human sec
900	320	10.2	660	7	ADC52924	Adc52924 Novel hum	973	320	10.2	660	7	AD165000	Ad165000 Novel hum
901	320	10.2	660	7	ADC57278	Adc57278 Novel hum	974	320	10.2	660	7	AD163499	Ad163499 Novel hum

975	320	10.2	660	7	ADH81913	Adh81913	Novel	hum	1048	320	10.2	660	8	ADG57987	Adg57987	Novel	hum
976	320	10.2	660	7	ADH81361	Adh81361	Novel	hum	1049	320	10.2	660	8	ADG53571	Adg53571	Novel	hum
977	320	10.2	660	7	ADJ26191	Adj26191	Human	sec	1050	320	10.2	660	8	ADG71457	Adg71457	Novel	hum
978	320	10.2	660	7	ADM82530	Adm82530	Novel	hum	1051	320	10.2	660	8	ADG81644	Adg81644	Human	PRO
979	320	10.2	660	7	ADN15929	Adn15929	Novel	hum	1052	320	10.2	660	8	ADH30606	Adh30606	Human	PRO
980	320	10.2	660	7	ADN16558	Adn16558	Novel	hum	1053	320	10.2	660	8	ADG63645	Adg63645	Human	sec
981	320	10.2	660	7	ADN15377	Adn15377	Novel	hum	1054	320	10.2	660	8	ADH11973	Adh11973	Novel	hum
982	320	10.2	660	7	ADN14825	Adn14825	Novel	hum	1055	320	10.2	660	8	ADG52395	Adg52395	Novel	hum
983	320	10.2	660	7	AD164051	Ad164051	Novel	hum	1056	320	10.2	660	8	ADG54123	Adg54123	Novel	hum
984	320	10.2	660	8	ADC81087	Adc81087	Novel	hum	1057	320	10.2	660	8	ADG81092	Adg81092	Human	PRO
985	320	10.2	660	8	ADE79106	Ade79106	Human	sec	1058	320	10.2	660	8	ADG56331	Adg56331	Novel	hum
986	320	10.2	660	8	ADJ76535	Adj76535	Human	PRO	1059	320	10.2	660	8	ADH12597	Adh12597	Novel	hum
987	320	10.2	660	8	ADD87899	Add87899	Human	PRO	1060	320	10.2	660	8	ADG61443	Adg61443	Novel	hum
988	320	10.2	660	8	ADD86303	Add86303	Human	PRO	1061	320	10.2	660	8	ADH28530	Adh28530	Human	PRO
989	320	10.2	660	8	ADE79530	Ade79530	Human	sec	1062	320	10.2	660	8	ADG54675	Adg54675	Novel	hum
990	320	10.2	660	8	ADE75751	Ade75751	Human	PRO	1063	320	10.2	660	8	ADG59715	Adg59715	Novel	hum
991	320	10.2	660	8	ADE73206	Ade73206	Human	sec	1064	320	10.2	660	8	ADH20340	Adh20340	Human	sec
992	320	10.2	660	8	ADE74296	Ade74296	Human	sec	1065	320	10.2	660	8	ADH43479	Adh43479	Human	PRO
993	320	10.2	660	8	ADE23327	Ade23327	Human	PRO	1066	320	10.2	660	8	ADH07195	Adh07195	Human	sec
994	320	10.2	660	8	ADE23879	Ade23879	Human	PRO	1067	320	10.2	660	8	ADH59740	Adh59740	Human	sec
995	320	10.2	660	8	ADE24522	Ade24522	Human	PRO	1068	320	10.2	660	8	ADH06768	Adh06768	Human	sec
996	320	10.2	660	8	ADD87347	Add87347	Human	PRO	1069	320	10.2	660	8	ADI81139	Adi81139	Human	PRO
997	320	10.2	660	8	ADE89213	Ade89213	Human	PRO	1070	320	10.2	660	8	ADI18510	Adi18510	Human	sec
998	320	10.2	660	8	ADE41210	Ade41210	Human	sec	1071	320	10.2	660	8	ADI65230	Adi65230	Human	sec
999	320	10.2	660	8	ADE73741	Ade73741	Human	sec	1072	320	10.2	660	8	ADI37493	Adi37493	Human	sec
1000	320	10.2	660	8	ADE18352	Ade18352	Human	PRO	1073	320	10.2	660	8	ADG09882	Adg09882	Novel	hum
1001	320	10.2	660	8	ADE88661	Ade88661	Human	PRO	1074	320	10.2	660	8	ADH97297	Adh97297	Human	sec
1002	320	10.2	660	8	ADE99295	Ade99295	Human	sec	1075	320	10.2	660	8	ADI15353	Adi15353	Novel	hum
1003	320	10.2	660	8	ADE94681	Ade94681	Human	PRO	1076	320	10.2	660	8	ADG09230	Adg09230	Novel	hum
1004	320	10.2	660	8	ADE91092	Ade91092	Human	PRO	1077	320	10.2	660	8	ADI14685	Adi14685	Novel	hum
1005	320	10.2	660	8	ADE95233	Ade95233	Human	PRO	1078	320	10.2	660	8	ADH60400	Adh60400	Human	sec
1006	320	10.2	660	8	ADE93343	Ade93343	Human	PRO	1079	320	10.2	660	8	ADI18280	Adi18280	Novel	hum
1007	320	10.2	660	8	ADF34924	Adf34924	Human	PRO	1080	320	10.2	660	8	ADJ99457	Adj99457	Human	sec
1008	320	10.2	660	8	ADE98414	Ade98414	Human	sec	1081	320	10.2	660	8	ADL08650	Adl08650	Human	sec
1009	320	10.2	660	8	ADE92239	Ade92239	Novel	hum	1082	320	10.2	660	8	ADM24995	Adm24995	Human	sec
1010	320	10.2	660	8	ADE90540	Ade90540	Human	PRO	1083	320	10.2	660	8	ADJ63561	Adj63561	Novel	hum
1011	320	10.2	660	8	ADE91687	Ade91687	Novel	hum	1084	320	10.2	660	8	ADM29741	Adm29741	Human	sec
1012	320	10.2	660	8	ADE98841	Ade98841	Human	sec	1085	320	10.2	660	8	ADJ77456	Adj77456	Human	PRO
1013	320	10.2	660	8	ADG40311	Adg40311	Human	sec	1086	320	10.2	660	8	ADK82824	Adk82824	Human	PRO
1014	320	10.2	660	8	ADF73705	Adf73705	Human	sec	1087	320	10.2	660	8	ADJ65578	Adj65578	Human	PRO
1015	320	10.2	660	8	ADG02266	Adg02266	Human	PRO	1088	320	10.2	660	8	ADM27714	Adm27714	Human	PRO
1016	320	10.2	660	8	ADG22052	Adg22052	Novel	hum	1089	320	10.2	660	8	ADM42438	Adm42438	Human	PRO
1017	320	10.2	660	8	ADG20122	Adg20122	Human	PRO	1090	320	10.2	660	8	ADO06063	Ado06063	Human	PRO
1018	320	10.2	660	8	ADF98028	Adf98028	Human	PRO	1091	320	10.2	660	8	ADM28300	Adm28300	Human	PRO
1019	320	10.2	660	8	ADG24245	Adg24245	Novel	hum	1092	320	10.2	660	8	ADRI0915	Adri0915	Human	sec
1020	320	10.2	660	8	ADF98599	Adf98599	Human	PRO	1093	320	10.2	660	8	ADRI7824	Adri7824	Human	sec
1021	320	10.2	660	8	ADG03430	Adg03430	Human	PRO	1094	320	10.2	660	8	ADI95782	Adi95782	Human	PRO
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1023	320	10.2	660	8	ADG16736	Adg16736	Human	PRO	1096	320	10.2	660	8	ADI65657	Adi65657	Human	sec
1024	320	10.2	660	8	ADG05195	Adg05195	Human	PRO	1097	320	10.2	660	8	ADT03500	Adt03500	Human	sec
1025	320	10.2	660	8	ADG19462	Adg19462	Human	PRO	1098	320	10.2	660	8	ADS74463	Ads74463	Human	sec
1026	320	10.2	660	8	ADF73281	Adf73281	Human	sec	1099	317.5	10.1	713	4	AAE13006	Aae13006	Human	leu
1027	320	10.2	660	8	ADG13299	Adg13299	Human	PRO	1100	316.5	10.1	713	5	AAU91335	Aau91335	Human	nov
1028	320	10.2	660	8	ADG08356	Adg08356	Novel	hum	1101	316.5	10.1	713	5	ABG97991	Abg97991	Human	nov
1029	320	10.2	660	8	ADG15526	Adg15526	Human	PRO	1102	316.5	10.1	713	6	ABU52381	Abu52381	Human	GPC
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1032	320	10.2	660	8	ADG23693	Adg23693	Novel	hum	1105	312	10.0	592	4	AAE09437	Aae09437	Human	sbg
1033	320	10.2	660	8	ADG03982	Adg03982	Human	PRO	1106	312	10.0	592	5	AAE25351	Aae25351	Human	LP
1034	320	10.2	660	8	ADG24883	Adg24883	Novel	hum	1107	312	10.0	592	5	AAU91329	Aau91329	Human	nov
1035	320	10.2	660	8	ADG07180	Adg07180	Novel	hum	1108	312	10.0	592	5	ABP60996	Abp60996	Novel	hum
1036	320	10.2	660	8	ADG07732	Adg07732	Novel	hum	1109	312	10.0	592	5	AAU79167	Aau79167	Human	leu
1037	320	10.2	660	8	ADG55227	Adg55227	Novel	hum	1110	312	10.0	592	6	ABG74693	Abg74693	Human	Gcd
1038	320	10.2	660	8	ADG60891	Adg60891	Novel	hum	1111	312	10.0	592	7	ADE03417	Ade03417	Human	imm
1039	320	10.2	660	8	ADG61995	Adg61995	Novel	hum	1112	312	10.0	608	5	ABG61770	Abg61770	Novel	leu
1040	320	10.2	660	8	ADG92124	Adg92124	Human	sec	1113	311	9.9	634	5	ABG97967	Abg97967	Human	ner
1041	320	10.2	660	8	ADG82196	Adg82196	Human	PRO	1114	310.5	9.9	620	6	ABR55628	Abr55628	Amino	aci
1042	320	10.2	660	8	ADG57435	Adg57435	Novel	hum	1115	310.5	9.9	674	6	AAO23115	Aao23115	FLRT1	'hu
1043	320	10.2	660	8	ADG56883	Adg56883	Novel	hum	1116	310.5	9.9	674	8	ADH17606	Adh17606	Human	NOV
1044	320	10.2	660	8	ADG55779	Adg55779	Novel	hum	1117	310.5	9.9	674	8	ADH17628	Adh17628	Human	NOV
1045	320	10.2	660	8	ADG58539	Adg58539	Novel	hum	1118	310.5	9.9	674	8	ADH17630	Adh17630	Human	NOV
1046	320	10.2	660	8	ADG70905	Adg70905	Novel	hum	1119	310.5	9.9	674	8	ADH17634	Adh17634	Human	NOV
1047	320	10.2	660	8	ADG92551	Adg92551	Human	sec	1120	310.5	9.9	674	8	ADH17632	Adh17632	Human	NOV

1121	309	9.9	585	6	ABO27346	Human sec	1194	309	9.9	649	6	ABR67962	Human sec
1122	309	9.9	585	6	ABO34232	Human sec	1195	309	9.9	649	6	ABR65350	Human sec
1123	309	9.9	649	4	AAU29215	Human PRO	1196	309	9.9	649	6	ABR68572	Human sec
1124	309	9.9	649	4	AA370533	Human PRO	1197	309	9.9	649	6	ABR71984	Human sec
1125	309	9.9	649	4	AA387591	Human PRO	1198	309	9.9	649	6	ABU85464	Human PRO
1126	309	9.9	649	5	ABG95916	Human sec	1199	309	9.9	649	6	ABU89154	Human sec
1127	309	9.9	649	5	AB884953	Human PRO	1200	309	9.9	649	6	ABU83234	Human sec
1128	309	9.9	649	5	AB870109	Human NOV	1201	309	9.9	649	6	ABU95090	Novel hum
1129	309	9.9	649	5	AB955559	Human ang	1202	309	9.9	649	6	ABU90638	Novel hum
1130	309	9.9	649	5	ABU58591	Human PRO	1203	309	9.9	649	6	ABU84149	Human sec
1131	309	9.9	649	6	ABU88139	Novel hum	1204	309	9.9	649	6	ABU93800	Novel hum
1132	309	9.9	649	6	ABU84454	Human sec	1205	309	9.9	649	6	ABR65045	Human sec
1133	309	9.9	649	6	ABR66328	Human sec	1206	309	9.9	649	6	ABR68877	Human sec
1134	309	9.9	649	6	ABR65718	Human sec	1207	309	9.9	649	6	ABO06693	Human sec
1135	309	9.9	649	6	ABU99658	Human sec	1208	309	9.9	649	6	ABR99238	Human sec
1136	309	9.9	649	6	ABU82897	Human PRO	1209	309	9.9	649	6	ABU57122	Human PRO
1137	309	9.9	649	6	ABU90018	Novel hum	1210	309	9.9	649	6	ABU86074	Novel hum
1138	309	9.9	649	6	ABR68267	Human sec	1211	309	9.9	649	6	ABU82361	Novel hum
1139	309	9.9	649	6	ABU96320	Novel hum	1212	309	9.9	649	6	ABU87372	Human PRO
1140	309	9.9	649	6	ABU92751	Human sec	1213	309	9.9	649	6	ABU83844	Human sec
1141	309	9.9	649	6	ABO08828	Human sec	1214	309	9.9	649	6	ABO08218	Human PRO
1142	309	9.9	649	6	ABO02880	Human sec	1215	309	9.9	649	6	ABU92541	Human sec
1143	309	9.9	649	6	ABR75034	Human sec	1216	309	9.9	649	6	ABU81929	Novel hum
1144	309	9.9	649	6	ABR94796	Human sec	1217	309	9.9	649	6	ABU66093	Novel hum
1145	309	9.9	649	6	ABU85769	Human PRO	1218	309	9.9	649	6	ABU81211	Human sec
1146	309	9.9	649	6	ABU98929	Novel hum	1219	309	9.9	649	6	ABR59922	Human sec
1147	309	9.9	649	6	ABU98144	Novel hum	1220	309	9.9	649	6	ABU94110	Novel hum
1148	309	9.9	649	6	ABU91850	Novel hum	1221	309	9.9	649	6	ABU99963	Novel hum
1149	309	9.9	649	6	ABU89543	Human PRO	1222	309	9.9	649	6	ABR66633	Human sec
1150	309	9.9	649	6	ABU86384	Human sec	1223	309	9.9	649	6	ABR91051	Human sec
1151	309	9.9	649	6	ABU67597	Human sec	1224	309	9.9	649	6	ABO53325	Novel hum
1152	309	9.9	649	6	ABU80625	Human PRO	1225	309	9.9	649	6	ABU94478	Human PRO
1153	309	9.9	649	6	ABU90941	Novel hum	1226	309	9.9	649	6	ABU79360	Human PRO
1154	309	9.9	649	6	ABO34000	Human sec	1227	309	9.9	649	6	ABU86689	Human sec
1155	309	9.9	649	6	ABR99543	Human sec	1228	309	9.9	649	6	ABU86994	Novel hum
1156	309	9.9	649	6	ABR98933	Human sec	1229	309	9.9	649	6	ABU94783	Human PRO
1157	309	9.9	649	6	ABO16456	Human sec	1230	309	9.9	649	6	ABO04710	Human PRO
1158	309	9.9	649	6	ABR92356	Human sec	1231	309	9.9	649	6	ABR70459	Human sec
1159	309	9.9	649	6	ABO118997	Human sec	1232	309	9.9	649	6	ABU98624	Human PRO
1160	309	9.9	649	6	ABR78418	Human sec	1233	309	9.9	649	6	ABR66023	Human sec
1161	309	9.9	649	6	ABU72017	Novel hum	1234	309	9.9	649	6	ABR64740	Human sec
1162	309	9.9	649	6	ABU85154	Novel hum	1235	309	9.9	649	6	ABU79665	Human PRO
1163	309	9.9	649	6	ABO00293	Novel hum	1236	309	9.9	649	6	ABU93056	Human sec
1164	309	9.9	649	6	ABO11625	Human sec	1237	309	9.9	649	6	ABU96015	Human PRO
1165	309	9.9	649	6	ABO02270	Human sec	1238	309	9.9	649	6	ABU91235	Novel hum
1166	309	9.9	649	6	ABU88844	Novel hum	1239	309	9.9	649	6	ABU90328	Novel hum
1167	309	9.9	649	6	ABU83539	Human sec	1240	309	9.9	649	6	ABO09743	Human sec
1168	309	9.9	649	6	ABO06340	Novel hum	1241	309	9.9	649	6	ABO11015	Human sec
1169	309	9.9	649	6	ABR59376	Human sec	1242	309	9.9	649	6	ABR71069	Human sec
1170	309	9.9	649	6	ABO09438	Human sec	1243	309	9.9	649	6	ABU98328	Novel hum
1171	309	9.9	649	6	ABO19302	Novel hum	1244	309	9.9	649	6	ABU87677	Human PRO
1172	309	9.9	649	6	ABO11320	Human sec	1245	309	9.9	649	6	ABU91545	Novel hum
1173	309	9.9	649	6	ABR66938	Human sec	1246	309	9.9	649	6	ABU89333	Novel hum
1174	309	9.9	649	6	ABO16151	Human sec	1247	309	9.9	649	6	ABU84759	Human sec
1175	309	9.9	649	6	ABO13857	Human sec	1248	309	9.9	649	6	ABR69849	Human sec
1176	309	9.9	649	6	ABU71571	Human sec	1249	309	9.9	649	6	ABU80226	Human PRO
1177	309	9.9	649	6	ABU65760	Human sec	1250	309	9.9	649	6	ABU82540	Novel hum
1178	309	9.9	649	6	ABO07608	Human PRO	1251	309	9.9	649	6	ABU93495	Human PRO
1179	309	9.9	649	6	ABO03795	Human sec	1252	309	9.9	649	6	ABO10048	Human sec
1180	309	9.9	649	6	ABR67243	Human sec	1253	309	9.9	649	6	ABO09133	Human sec
1181	309	9.9	649	6	ABO15846	Human sec	1254	309	9.9	649	6	ABU96504	Human PRO
1182	309	9.9	649	6	ABU56127	Human sec	1255	309	9.9	649	6	ABU10701	Human sec
1183	309	9.9	649	6	ABU72352	Human PRO	1256	309	9.9	649	6	ABU72174	Human PRO
1184	309	9.9	649	6	ABU65455	Human PRO	1257	309	9.9	649	6	ABU95710	Human PRO
1185	309	9.9	649	6	ABU95400	Novel hum	1258	309	9.9	649	6	ABU96919	Novel hum
1186	309	9.9	649	6	ABU71303	Human PRO	1259	309	9.9	649	6	ABR70764	Human sec
1187	309	9.9	649	6	ABO07913	Human PRO	1260	309	9.9	649	6	ABO05115	Novel hum
1188	309	9.9	649	6	ABR70154	Human sec	1261	309	9.9	649	6	ABO08523	Human sec
1189	309	9.9	649	6	ABR69487	Human sec	1262	309	9.9	649	6	ABO05730	Human sec
1190	309	9.9	649	6	ABO01628	Human PRO	1263	309	9.9	649	6	ABR74119	Human sec
1191	309	9.9	649	6	ABU81430	Human PRO	1264	309	9.9	649	6	ABR95711	Human sec
1192	309	9.9	649	6	ABR60227	Human PRO	1265	309	9.9	649	6	ABR81008	Human sec
1193	309	9.9	649	6	ABU91025	Human PRO	1266	309	9.9	649	6	ABR81313	Human sec

1267	309	9.9	649	6	ABM01009	Human sec	1340	309	9.9	649	6	ABM11128	Human sec
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1278	309	9.9	649	6	ABO03185	Human sec	1351	309	9.9	649	6	ABO52799	Human PRO
1279	309	9.9	649	6	ABR90441	Human sec	1352	309	9.9	649	6	ABO50359	Human sec
1280	309	9.9	649	6	ABM17355	Human sec	1353	309	9.9	649	6	ABU99353	Human sec
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1288	309	9.9	649	6	ABM27967	Human sec	1361	309	9.9	649	6	ABM13568	Human sec
1289	309	9.9	649	6	ABM06248	Human sec	1362	309	9.9	649	6	ABM20952	Human sec
1290	309	9.9	649	6	ABM03754	Human sec	1363	309	9.9	649	6	ABO42083	Human sec
1291	309	9.9	649	6	ABM35205	Human sec	1364	309	9.9	649	6	ABO42693	Human sec
1292	309	9.9	649	6	ABM28442	Human sec	1365	309	9.9	649	6	ABM10213	Human sec
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Query Match 100.0%; Score 3135; DB 2; Length 598;
Best Local Similarity 100.0%; Pred. No. 3.3e-190;
Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MCSRVPLLLPLLLLLALPGVQGCPSGCQCQSQPQVFTCTARQGTTPRDVPPDTVGLYVF 60
Db 1 MCSRVPLLLPLLLLLALPGVQGCPSGCQCQSQPQVFTCTARQGTTPRDVPPDTVGLYVF 60
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Db 61 ENGITMLDASSFAGLPGQLDLDSQNIASRLPRLLLDLSHNSLLALEPGILDANVE 120
Qy 121 ALRLAGLQLOLDGLFSRLRNLDVSDNQLERVPVIRGLRLTRLRLAGNTRIAQL 180
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Qy 181 RPEDLAGLAALQELDVSNLSLQALPGDLSGLFPRLRLAAARNPNCVPLSWFGPWVRE 240
Db 181 RPEDLAGLAALQELDVSNLSLQALPGDLSGLFPRLRLAAARNPNCVPLSWFGPWVRE 240
Qy 241 SHVTLASPEETRCHFPKPNAGRLLELDYADFGCPATTTTATVTRPVVREPTALSSSL 300
Db 241 SHVTLASPEETRCHFPKPNAGRLLELDYADFGCPATTTTATVTRPVVREPTALSSSL 300
Qy 301 APTWLSPTAPATEAPSPSTAPPTVPVPQDQCPSTCLNGTCHLGRHHLACLCPGEG 360
Db 301 APTWLSPTAPATEAPSPSTAPPTVPVPQDQCPSTCLNGTCHLGRHHLACLCPGEG 360
Qy 361 FTGLYCESQMGQTRPSPTVTPRPSRLTIGIPVSPTSRLVGLQRYLQSSVQLRSRLR 420
Db 361 FTGLYCESQMGQTRPSPTVTPRPSRLTIGIPVSPTSRLVGLQRYLQSSVQLRSRLR 420
Qy 421 LTYRNLSGPDRLVTLRLPASLAETVTLQRPNATYSVCVMPLGPRVPEGEACGEAHT 480
Db 421 LTYRNLSGPDRLVTLRLPASLAETVTLQRPNATYSVCVMPLGPRVPEGEACGEAHT 480
Qy 481 PPAVHSHNAPVTOAREGNLPLLIAPALAAVLLAALAAVGAAYCVRGRGMAAAAQDKGV 540
Db 481 PPAVHSHNAPVTOAREGNLPLLIAPALAAVLLAALAAVGAAYCVRGRGMAAAAQDKGV 540
Qy 541 GPGAGPLEGVKVPLEPGPKATEGGEBALSGSECEVPLMGFPQGLQSPHAKPYI 598
Db 541 GPGAGPLEGVKVPLEPGPKATEGGEBALSGSECEVPLMGFPQGLQSPHAKPYI 598

RESULT 2
AAB01322
XX AAB01322 standard; protein; 598 AA.
XX AC AAB01322;
XX DT 25-SEP-2000 (first entry)
XX DE Human PRO357 polypeptide.
XX KW PRO; membrane bound protein; secreted protein; PRO357; PRO327; PRO243;
KW PRO715; PRO241; PRO323; PRO299; PRO233; PRO344; PRO347; PRO355; PRO353;
KW PRO361; PRO365; transmembrane polypeptide; antibody; screening;
KW detection; inhibition; probe; primer; human.
XX OS Homo sapiens.
XX FH Key Location/Qualifiers
XX FT Peptide 1..23
XX FT Binding-site /label= Signal peptide 14..25
XX FT FT /label= Prokaryotic membrane lipoprotein lipid attachment site
XX FT Modified-site 23..29
XX FT /note= "N-myristoylation site"
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FT Modified-site 27..33
FT /note= "N-myristoylation site"
FT Modified-site 112..118
FT /note= "N-myristoylation site"
FT Domain 122..144
FT /label= Leucine zipper pattern
FT Domain 194..216
FT /label= Leucine zipper pattern
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FT Modified-site 262..270
FT /note= "Tyrosine kinase phosphorylation site"
FT Modified-site 273..279
FT /note= "N-myristoylation site"
FT Domain 355..367
FT /label= EGF-like domain cysteine pattern signature
FT Modified-site 425..429
FT /note= "N-glycosylation site"
FT Modified-site 453..457
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FT Domain 501..522
FT /label= Transmembrane domain
FT Modified-site 519..525
FT /note= "N-myristoylation site"
FT Modified-site 565..571
FT /note= "N-myristoylation site"
XX WO2000032776-A2.
XX PN
XX 08-JUN-2000.
XX 01-DEC-1999; 99WO-US028301.
XX 01-DEC-1998; 98WO-US025108.
XX 16-DEC-1998; 98US-0112850P.
XX 22-DEC-1998; 98US-0113296P.
XX (GETH ) GENENTECH INC.
XX Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;
XX Gerritsen ME, Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL;
XX Hillan KJ, Kljavin IJ, Napier MA, Roy MA, Tumas D, Wood WI;
XX WPI; 2000-412324/35.
XX N-ESDB; AAA49564.
XX New human nucleic acids encoding secreted and transmembrane polypeptides,
XX designated as PRO polypeptides, useful as pharmaceutical and diagnostic
XX agents.
XX Claim 12; Fig 26; 187pp; English.
XX New human nucleic acids encoding secreted and transmembrane polypeptides
XX which are designated as PRO polypeptides are described The membrane-bound
XX proteins have various industrial applications, including as
XX pharmaceutical and diagnostic agents. The membrane-bound proteins can
XX also be employed for screening of potential peptide or small molecule
XX inhibitors of the relevant receptor/ligand interaction. Anti-PRO
XX antibodies are useful for the affinity purification of PRO from
XX recombinant cell culture or natural sources
XX Sequence 598 AA;
Query Match 100.0%; Score 3135; DB 3; Length 598;
Best Local Similarity 100.0%; Pred. No. 3.3e-190;
Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MCSRVPLLLPLLLLLALPGVQGCPSGCQCQSQPQVFTCTARQGTTPRDVPPDTVGLYVF 60
Db 1 MCSRVPLLLPLLLLLALPGVQGCPSGCQCQSQPQVFTCTARQGTTPRDVPPDTVGLYVF 60
Qy 61 ENGITMLDASSFAGLPGQLDLDSQNIASRLPRLLLDLSHNSLLALEPGILDANVE 120
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Db	61	ENGITMLDASSFAGLPGQLQLDLDSQNIASRLRPLRLLLDLSSNSLLALEPGLDITANVE	120
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Qy	241	SHVTLASPEETRCHFPFKNAGRLLLLELDVADFGCPATTTTATVPTTRPVVREPTALSSSL	300
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Qy	301	APTWLSPTAPATAPSPSTAPTGVFPQPCPSTCLNGTCHLGRHHLACLCPEG	360
Db	301	APTWLSPTAPATAPSPSTAPTGVFPQPCPSTCLNGTCHLGRHHLACLCPEG	360
Qy	361	FTGLYCESOMGQTRSPPTVTPRPSRLTLGIEPVSPSLRVGLQRYLQGSVQLRSRL	420
Db	361	FTGLYCESOMGQTRSPPTVTPRPSRLTLGIEPVSPSLRVGLQRYLQGSVQLRSRL	420
Qy	421	LYRNLSGDPKRLVTLRLPASLAETVTOLRPNATYSVCVMPPLGCRVPEGEEACGEAHT	480
Db	421	LYRNLSGDPKRLVTLRLPASLAETVTOLRPNATYSVCVMPPLGCRVPEGEEACGEAHT	480
Qy	481	PPAVHSHAPVTQAREGNPLLIAPALAAVLAALAAVGAAYCVRGRGRAMAAADKGQV	540
Db	481	PPAVHSHAPVTQAREGNPLLIAPALAAVLAALAAVGAAYCVRGRGRAMAAADKGQV	540
Qy	541	GPCAGPLEGVKVPLEPGKATEGGGEALPGSSECEVPLMGPPGLQSPHLHAKYI	598
Db	541	GPCAGPLEGVKVPLEPGKATEGGGEALPGSSECEVPLMGPPGLQSPHLHAKYI	598

RESULT 3
AAY93691
ID AAY93691 standard; protein; 598 AA.
XX
AC AAY93691;
XX
DT 03-OCT-2000 (first entry)
DE
DE Amino acid sequence of novel polypeptide PRO357.
XX
KW PRO201; PRO327; PRO1265; PRO344; PRO343; PRO347; PRO357; PRO715;
KW PRO1017; PRO1112; PRO509; PRO853; PRO882; tumour cell; tumourigenesis;
KW cancer; neoplastic cell growth; cell proliferation.
XX
OS Homo sapiens.
XX
FH Location/Qualifiers
FT 1..23 /note= "signal sequence"
FT 14..25 /note= "prokaryotic membrane lipoprotein attachment site"
FT 23..29 /note= "N-myristoylation site"
FT 27..33 /note= "N-myristoylation site"
FT 112..118 /note= "N-myristoylation site"
FT 122..144 /note= "N-myristoylation site"
FT 194..216 /note= "leucine zipper"
FT 198..202 /note= "N-glycosylation site"
FT 262..270 /note= "tyrosine kinase phosphorylation site"
FT 273..279 /note= "N-myristoylation site"
FT 425..429 /note= "N-myristoylation site"

FT	Modified-site	/note= "N-glycosylation site"	453..457
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FT	Modified-site	/note= "transmembrane domain"	519..525
FT	Modified-site	/note= "N-myristoylation site"	565..571
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XX	WO200037640-A2.		
PN	29-JUN-2000.		
XX	16-DEC-1999;	99WO-US030095.	
XX	22-DEC-1998;	98US-0113296P.	
PR	08-MAR-1999;	99WO-US005028.	
PR	02-JUN-1999;	99WO-US012252.	
PR	01-SEP-1999;	99WO-US020111.	
PR	15-SEP-1999;	99WO-US021090.	
PR	30-NOV-1999;	99WO-US028313.	
PR	30-NOV-1999;	99WO-US028409.	
PR	01-DEC-1999;	99WO-US028301.	
PR	02-DEC-1999;	99WO-US028565.	
XX	(GETH) GENENTECH INC.		
PA	Botstein D, Goddard A, Gurney AL, Hillan K, Lawrence DA, Roy MA; Wood WI;		
XX	WPI; 2000-452188/39.		
DR	N-PSDB; AAA46922.		
XX	New anti-polypeptide antibody useful in the treatment and diagnosis of neoplastic cell growth and proliferation.		
PT	Claim 61; Fig 16; 220pp; English.		
XX	The present sequence represents a novel human polypeptide. The specification describes novel polypeptides designated PRO201, PRO292, PRO327, PRO1265, PRO344, PRO343, PRO347, PRO357, PRO715, PRO1017, PRO1112, PRO509, PRO853 and PRO882. These genes are amplified in the genome of tumour cells. The polypeptides are believed to contribute to tumourigenesis. The polypeptides are useful target for the identification of certain cancers, and may act as predictors of the prognosis of tumour treatment. Antibodies against these polypeptides are useful in the treatment and diagnosis of neoplastic cell growth and proliferation in mammals		
XX	Sequence 598 AA;		
Qy	Query Match	100.0%; Score 3135; DB 3; Length 598;	
Db	Best Local Similarity	100.0%; Pred. No. 3.3e-190;	
Qy	Matches 598; Conservative	0; Mismatches 0; Indels 0; Gaps 0;	
Db	1 MCSRPVLLPLLLALLALGFGVQCGPCGSCQSQPQTVFCTARQGTTPRDRVPPDTVGLYVF	60	
Qy	61 ENGITMLDASSFAGLPGQLQLDLDSQNIASRLRPLRLLLDLSSNSLLALEPGLDITANVE	120	
Db	61 ENGITMLDASSFAGLPGQLQLDLDSQNIASRLRPLRLLLDLSSNSLLALEPGLDITANVE	120	
Qy	121 ALRLAGLGLQQLDEGLFSRLRLNHLDDVSDNQLRVPVIRGLRGLTRLRAGNTRIAQL	180	
Db	121 ALRLAGLGLQQLDEGLFSRLRLNHLDDVSDNQLRVPVIRGLRGLTRLRAGNTRIAQL	180	
Qy	181 RPEDLAGLALQELDVSNLSQALPGDLGLFPRLLRLLAAARNPFCVPLSWFGPWVRE	240	
Db	181 RPEDLAGLALQELDVSNLSQALPGDLGLFPRLLRLLAAARNPFCVPLSWFGPWVRE	240	
Qy	241 SHVTLASPEETRCHFPFKNAGRLLLLELDVADFGCPATTTTATVPTTRPVVREPTALSSSL	300	
Db	241 SHVTLASPEETRCHFPFKNAGRLLLLELDVADFGCPATTTTATVPTTRPVVREPTALSSSL	300	

Db 241 SHVTLASPEETRCFFPKNAGRLLELDYADFGCPATTTTATVTRPVREPTALSSSL 300
 Qy 301 APTWLSPTAPATEAPSPSTAPPTVGPVQPDCCPPSTCLNGGTCHLGRHHLACLCEPG 360
 Db 301 APTWLSPTAPATEAPSPSTAPPTVGPVQPDCCPPSTCLNGGTCHLGRHHLACLCEPG 360
 Qy 361 FTGLYCESOMGGTRPSTPTVTRPRRSITLIGIEPVSPSTSLRVGLORYLQSSVQLRSRLR 420
 Db 361 FTGLYCESOMGGTRPSTPTVTRPRRSITLIGIEPVSPSTSLRVGLORYLQSSVQLRSRLR 420
 Qy 421 LTYRNLSGPDKRLVTLRLPASLAETVTLQLRPNATYSVCVMPPLGPRVPEGEACEAHT 480
 Db 421 LTYRNLSGPDKRLVTLRLPASLAETVTLQLRPNATYSVCVMPPLGPRVPEGEACEAHT 480
 Qy 481 PPAVHNSHAPVTQAREGNLPLLIAPALAAVLLAALAAVGAAYCVRRGRAMAAAAQDKGV 540
 Db 481 PPAVHNSHAPVTQAREGNLPLLIAPALAAVLLAALAAVGAAYCVRRGRAMAAAAQDKGV 540
 Qy 541 GPGAGPLEGKVPLEPGKATEGGGEALPSGSECEVPLMGFPGLQSLHAKPYI 598
 Db 541 GPGAGPLEGKVPLEPGKATEGGGEALPSGSECEVPLMGFPGLQSLHAKPYI 598

RESULT 4
 AAU83643
 ID AAU83643 standard; protein; 598 AA.

AC AAU83643;
 DT 08-MAY-2002 (first entry)
 DE Human PRO protein, Seq ID No 104.

KW Human; secreted protein; PRO; tumour; lung cancer; colon cancer;
 KW breast cancer; prostate tumour; rectal tumour; liver tumour;
 KW pericyte cell proliferation; chondrocyte cell proliferation;
 KW tumour necrosis factor-alpha.

XX Homo sapiens.
 OS
 PN WO200208288-A2.

PD 31-JAN-2002.
 XX 29-JUN-2001; 2001WO-US021066.

XX 20-JUL-2000; 2000US-0219556P.
 PR 25-JUL-2000; 2000US-0220585P.
 PR 25-JUL-2000; 2000US-0220605P.
 PR 25-JUL-2000; 2000US-0220607P.
 PR 25-JUL-2000; 2000US-0220624P.
 PR 25-JUL-2000; 2000US-0220638P.
 PR 25-JUL-2000; 2000US-0220664P.
 PR 25-JUL-2000; 2000US-0220666P.
 PR 26-JUL-2000; 2000US-0220893P.
 PR 28-JUL-2000; 2000WO-US020710.
 PR 22-AUG-2000; 2000US-0222425P.
 PR 23-AUG-2000; 2000WO-US023522.
 PR 24-AUG-2000; 2000WO-US023328.
 PR 10-NOV-2000; 2000WO-US030873.
 PR 28-NOV-2000; 2000US-0253646P.
 PR 01-DEC-2000; 2000WO-US032678.
 PR 20-DEC-2000; 2000US-00747259.
 PR 20-DEC-2000; 2000WO-US034956.
 PR 28-FEB-2001; 2001WO-US006520.
 PR 01-MAR-2001; 2001WO-US006666.
 PR 22-MAR-2001; 2001US-00816744.
 PR 10-MAY-2001; 2001US-00854208.
 PR 10-MAY-2001; 2001US-00854280.
 PR 25-MAY-2001; 2001WO-US017092.

(GETH) GENENTECH INC.
 Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ;
 Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;
 WPI; 2002-172001/22.
 DR N-PSDB; ABK33587.

One hundred and twenty two nucleic acids encoding PRO polypeptides,
 as useful for treating a PRO related disorder and for diagnosing tumors such
 as lung cancer, colon cancer, breast tumor, prostate tumor, rectal tumor
 or liver tumor.

Claim 11; Fig 104; 359pp; English.

The invention relates to one hundred and twenty two nucleic acids
 encoding PRO polypeptides. The sequences of the 122 PRO polynucleotides
 encode human secreted proteins. The PRO nucleic acids, polypeptides,
 agonists and antagonists are useful for treating a PRO related disorder.
 The PRO polypeptides are useful for diagnosing tumours, especially lung
 cancer, colon cancer, breast tumor, prostate tumor, rectal tumor or
 liver tumor. The PRO polypeptides are useful for stimulating the
 proliferation of, or gene expression, in pericyte cells, for stimulating
 the proliferation or differentiation of chondrocyte cells, for
 stimulating the release of tumour necrosis factor-alpha from human blood,
 for stimulating or inhibiting the proliferation of normal human dermal
 fibroblast cells. The PRO polypeptide may also be used as molecular
 weight markers and for tissue typing. The PRO nucleic acids have
 applications in molecular biology, including use as hybridisation probes,
 CC and in chromosome and gene mapping. AAU83592-AAU83713 represent human PRO
 CC protein sequences of the invention
 CC

SQ Sequence 598 AA;

Query Match 100.0%; Score 3135; DB 5; Length 598;
 Best Local Similarity 100.0%; Pred. No. 3.3e-190;
 Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MCSRVPLLLPLLLLALGPGVQGCPCSCQSQPOTVFTARQGTTPRDPVDPDTVGLVYF 60
 Db 1 MCSRVPLLLPLLLLALGPGVQGCPCSCQSQPOTVFTARQGTTPRDPVDPDTVGLVYF 60
 Qy 61 ENGITMLDASSFAGLPGQLQLDLSONQIASLRLLDLDSHNSLLALEGILDANVE 120
 Db 61 ENGITMLDASSFAGLPGQLQLDLSONQIASLRLLDLDSHNSLLALEGILDANVE 120
 Qy 121 ALRLAGLQQLDDEGLFSLRLNHLHDLDVSDNQLERVPVIRGLRGLTRLAGNTRIAQL 180
 Db 121 ALRLAGLQQLDDEGLFSLRLNHLHDLDVSDNQLERVPVIRGLRGLTRLAGNTRIAQL 180
 Qy 181 RPEDLAGLALQELDVSNLSLQALPGDLISGLFPLRLLLAAARNPFCVPLSWFGPWVRE 240
 Db 181 RPEDLAGLALQELDVSNLSLQALPGDLISGLFPLRLLLAAARNPFCVPLSWFGPWVRE 240
 Qy 241 SHVTLASPEETRCFFPKNAGRLLELDYADFGCPATTTTATVTRPVREPTALSSSL 300
 Db 241 SHVTLASPEETRCFFPKNAGRLLELDYADFGCPATTTTATVTRPVREPTALSSSL 300
 Qy 301 APTWLSPTAPATEAPSPSTAPPTVGPVQPDCCPPSTCLNGGTCHLGRHHLACLCEPG 360
 Db 301 APTWLSPTAPATEAPSPSTAPPTVGPVQPDCCPPSTCLNGGTCHLGRHHLACLCEPG 360
 Qy 361 FTGLYCESOMGGTRPSTPTVTRPRRSITLIGIEPVSPSTSLRVGLORYLQSSVQLRSRLR 420
 Db 361 FTGLYCESOMGGTRPSTPTVTRPRRSITLIGIEPVSPSTSLRVGLORYLQSSVQLRSRLR 420
 Qy 421 LTYRNLSGPDKRLVTLRLPASLAETVTLQLRPNATYSVCVMPPLGPRVPEGEACEAHT 480
 Db 421 LTYRNLSGPDKRLVTLRLPASLAETVTLQLRPNATYSVCVMPPLGPRVPEGEACEAHT 480
 Qy 481 PPAVHNSHAPVTQAREGNLPLLIAPALAAVLLAALAAVGAAYCVRRGRAMAAAAQDKGV 540
 Db 481 PPAVHNSHAPVTQAREGNLPLLIAPALAAVLLAALAAVGAAYCVRRGRAMAAAAQDKGV 540

QY 541 GPGAGPLEGKVPKTEGGEALPGSGCEVPLMGPPGGLQSPPLHAKPYI 598
 DB 541 GPGAGPLEGKVPKTEGGEALPGSGCEVPLMGPPGGLQSPPLHAKPYI 598

RESULT 5
 ABUS5931
 ID ABUS5931 standard; protein; 598 AA.
 AC ABUS5931;
 DT 26-MAR-2003 (first entry)
 DE Human secreted/transmembrane protein PRO357.
 KW Human; PRO; secreted protein; transmembrane protein; anti-HIV;
 KW cytostatic; antiarteriosclerotic; antiinflammatory; antidiabetic;
 KW cardiant; AIDS; acquired immunodeficiency syndrome; cancer;
 KW atherosclerosis; inflammatory disease; diabetic complication;
 KW cardiac injury; organ failure.
 XX Homo sapiens.
 OS
 XX
 PN US2002142959-A1.
 XX
 PD 03-OCT-2002.
 PF
 PF 31-AUG-2001; 2001US-00944654.
 XX
 PR 16-SEP-1998; 98WO-US019330.
 PR 01-DEC-1998; 98WO-US025108.
 PR 22-JUN-1999; 99WO-US012252.
 PR 15-SEP-1999; 99WO-US021090.
 PR 30-NOV-1999; 99WO-US028313.
 PR 30-NOV-1999; 99WO-US028409.
 PR 01-DEC-1999; 99WO-US028301.
 PR 16-DEC-1999; 99WO-US030095.
 PR 11-FEB-2000; 2000WO-US003565.
 PR 22-FEB-2000; 2000WO-US004414.
 PR 02-MAR-2000; 2000WO-US005841.
 PR 30-MAR-2000; 2000WO-US008439.
 PR 22-MAY-2000; 2000WO-US014042.
 PR 28-JUL-2000; 2000WO-US020710.
 PR 01-DEC-2000; 2000WO-US032678.
 PR 28-FEB-2001; 2001WO-US006520.
 PR 25-MAY-2001; 2001US-00866028.
 XX
 PA (GETH) GENENTECH INC.
 XX Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;
 PI Gerritsen ME, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL;
 PI Hillan KJ, Kijavini LV, Napier MA, Roy MA, Tumas D, Wood WI;
 XX
 DR WPI; 2003-174141/17.
 DR N-PSDB; ABX75493.
 PT
 PT New isolated PRO polypeptide and encoding nucleic acid, useful for the
 PT diagnosis and treatment of disorders associated with the PRO polypeptide,
 PT such as AIDS, cancer, atherosclerosis, inflammatory disease and diabetes.
 XX
 PS Claim 12; Fig 26; 178pp; English.
 CC The invention relates to an isolated PRO polypeptide (a secreted or
 CC transmembrane protein) comprising: (a) at least 80% sequence identity or
 CC positives when compared to any of 15 sequences, fully defined in the
 CC specification, lacking or with its associated signal peptide; or (b) at
 CC least 80% sequence identity to a sequence encoded by the full-length
 CC coding sequence of a DNA deposited in the American Type Culture
 CC Collection (ATCC). Also included are: (1) an isolated nucleic acid
 CC comprising: (a) at least 80% sequence identity to a nucleotide sequence
 CC that encodes a PRO protein; (b) at least 80% sequence identity to a
 CC nucleotide sequence or full-length coding sequence with any of 15 fully

CC defined sequences of 957-3441 base pairs, given in the specification; or
 CC (c) at least 80% sequence identity to a full-length coding sequence of a
 CC DNA deposited under ATCC Accession No. 209526, 209508, 209524, 209528,
 CC 209530, 209532, 209531, 209529, 209527, 209570, 209570, 209570,
 CC 209621 or 209619; (2) a vector comprising the nucleic acid; (3) a host
 CC cell comprising the vector which, when cultured under conditions suitable
 CC for expression of the PRO polypeptide, produces the PRO protein; (4) a
 CC chimeric molecule comprising PRO fused to a heterologous amino acid
 CC sequence; and (5) an anti-PRO antibody. The methods and compositions of
 CC the present invention are useful for the diagnosis and treatment of
 CC disorders associated with the PRO polypeptide, such as AIDS (acquired
 CC immunodeficiency syndrome), cancer, atherosclerosis, inflammatory
 CC disease, diabetic complications, cardiac injury and organ failure. The
 CC antibodies can also be used in the different screening, therapeutic and
 CC biological assays. The present sequence represents a PRO protein
 XX
 XX Sequence 598 AA;
 Query Match 100.0%; Score 3135; DB 6; Length 598;
 Best Local Similarity 100.0%; Pred. No. 3.3e-190;
 Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MCSRVPLLLPLLLALGPGVQCGPCGCGCQCPQVCTARQCTTVPRDVPDVTGLYVF 60
 DB 1 MCSRVPLLLPLLLALGPGVQCGPCGCGCQCPQVCTARQCTTVPRDVPDVTGLYVF 60
 QY 61 ENGITMDASSFAGLPGLQLDLDSQNIASRLPRLLDLHNSLLALEPGLDITANVE 120
 DB 61 ENGITMDASSFAGLPGLQLDLDSQNIASRLPRLLDLHNSLLALEPGLDITANVE 120
 QY 121 ALRLAGLGLQDLDEGLFSLRLNHLHDVSDNQLERVPVIRGLRGLTRLRAGNTRIAQL 180
 DB 121 ALRLAGLGLQDLDEGLFSLRLNHLHDVSDNQLERVPVIRGLRGLTRLRAGNTRIAQL 180
 QY 181 RPEDLAGLAALQELDVSNLSLQALPGDLGLPRLRLAAARNPNCVCLPGLSFGFWPVE 240
 DB 181 RPEDLAGLAALQELDVSNLSLQALPGDLGLPRLRLAAARNPNCVCLPGLSFGFWPVE 240
 QY 241 SHVTLASPEETRCHFPKPNAGRLLELDYADFGCPATTTTATVTPTRPVVREPTALSSSL 300
 DB 241 SHVTLASPEETRCHFPKPNAGRLLELDYADFGCPATTTTATVTPTRPVVREPTALSSSL 300
 QY 301 APTWLSPTAPATEAPSPSTAPPTVGPVPOQDCPPSTCLNGTCHLGRHLACLCPG 360
 DB 301 APTWLSPTAPATEAPSPSTAPPTVGPVPOQDCPPSTCLNGTCHLGRHLACLCPG 360
 QY 361 FTGLYCESQMGOGTRPSPTPTVPRPSRLTGLIEPVSPSLRVGLQRYLQSSVOLRSR 420
 DB 361 FTGLYCESQMGOGTRPSPTPTVPRPSRLTGLIEPVSPSLRVGLQRYLQSSVOLRSR 420
 QY 421 LTYRNLSPDKRLVTLRLPASLAETVTQLRPNATYSVCVMPPLGPRVPEGEACGEAHT 480
 DB 421 LTYRNLSPDKRLVTLRLPASLAETVTQLRPNATYSVCVMPPLGPRVPEGEACGEAHT 480
 QY 481 PPAVSHNAPVTQAREGNLPLLIAPALAAVLAALAAVGAAYCVRGRGMAAAQDKGV 540
 DB 481 PPAVSHNAPVTQAREGNLPLLIAPALAAVLAALAAVGAAYCVRGRGMAAAQDKGV 540
 QY 541 GPGAGPLEGKVPKTEGGEALPGSGCEVPLMGPPGGLQSPPLHAKPYI 598
 DB 541 GPGAGPLEGKVPKTEGGEALPGSGCEVPLMGPPGGLQSPPLHAKPYI 598

RESULT 6
 ABUS0790
 ID ABUS0790 standard; protein; 598 AA.
 XX
 AC ABUS0790;
 DT 23-JUN-2003 (first entry)
 XX
 XX Human PRO polypeptide #52.
 XX

CC	infertility, birth defects, premature aging, acquired immunodeficiency	
CC	syndrome (AIDS) and diabetic complications in mammals, e.g. humans, dogs,	
CC	cats, cattle, horses, sheep, pigs, goats or rabbits. The sequences are	
CC	also useful in biotechnological and medical research and in various	
CC	industrial applications. Sequences ABU60230-ABU60245 represent human PRO	
CC	polypeptides of the invention	
XX		
SQ	Sequence 598 AA;	
	Query Match	
	Best Local Similarity 100.0%; Score 3135; DB 6; Length 598;	
	Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
QY	1 MCSRVPDLLLLALLALGFGVQCSPGSCQSQPQVFCCTARQGTTPRDPVDDTVGLVVF 60	
Db	1 MCSRVPDLLLLALLALGFGVQCSPGSCQSQPQVFCCTARQGTTPRDPVDDTVGLVVF 60	
QY	61 ENGITMLDASSFAGLPGQLDLDSNQIASLRPLRLDLLDLSHNSLLALEPGILDANVE 120	
Db	61 ENGITMLDASSFAGLPGQLDLDSNQIASLRPLRLDLLDLSHNSLLALEPGILDANVE 120	
QY	121 ALRLAGLGLQQLDEGLFSLRLNLHLDVSDNQLERVPPVIRGLGLTRLRLAGNTRIAQL 180	
Db	121 ALRLAGLGLQQLDEGLFSLRLNLHLDVSDNQLERVPPVIRGLGLTRLRLAGNTRIAQL 180	
QY	181 RPEDLAGLAALQELDVSNLSLQALPGDLSGLFPRLRLAAARNPNCVCPLSWFGPWVRE 240	
Db	181 RPEDLAGLAALQELDVSNLSLQALPGDLSGLFPRLRLAAARNPNCVCPLSWFGPWVRE 240	
QY	241 SHVTLASPEETRCHPPKKNAGRLLELDYADFGCPATTTTATVTRPVVREPTALSSSL 300	
Db	241 SHVTLASPEETRCHPPKKNAGRLLELDYADFGCPATTTTATVTRPVVREPTALSSSL 300	
QY	301 APTWLSPTAPATEAPSPSTAPPVTGVPVQPQDCPPSTCLNGGTCGLGTRHHLACLCEPG 360	
Db	301 APTWLSPTAPATEAPSPSTAPPVTGVPVQPQDCPPSTCLNGGTCGLGTRHHLACLCEPG 360	
QY	361 FTGLYCESQMGQGTTPVTPRPRSLTIGIEPVSTSLRVGLQRYLOGSSVOLRLSLR 420	
Db	361 FTGLYCESQMGQGTTPVTPRPRSLTIGIEPVSTSLRVGLQRYLOGSSVOLRLSLR 420	
QY	421 LTYRNLSPDKRLVTLRLPASLAETVTLQRPNATYSVCVMPLGPRVPEGEAGEAHT 480	
Db	421 LTYRNLSPDKRLVTLRLPASLAETVTLQRPNATYSVCVMPLGPRVPEGEAGEAHT 480	
QY	481 PPAVHSHNAPVTQAREGNLPLLIAPALAAVLLAALAAVGAAYCVRGRGMAAAQDKGV 540	
Db	481 PPAVHSHNAPVTQAREGNLPLLIAPALAAVLLAALAAVGAAYCVRGRGMAAAQDKGV 540	
QY	541 GPGAGPLEGVKVPLEPGPKATEGGALPSGSECEVPLMGFGPGQLSPHAKPYI 598	
Db	541 GPGAGPLEGVKVPLEPGPKATEGGALPSGSECEVPLMGFGPGQLSPHAKPYI 598	
RESULT 9		
ABU64927		
ID	ABU64927 standard; protein; 598 AA.	
XX		
AC	ABU64927;	
XX		
XX		
DT	15-MAY-2003 (first entry)	
XX		
DE	Human secreted/transmembrane protein PRO357.	
XX		
KW	Human; PRO; secreted protein; transmembrane protein;	
KW	Cornelia de Lange syndrome; gene therapy; immune disorder;	
KW	inflammatory disease; organ failure; atherosclerosis; cardiac injury;	
KW	infertility; birth defect; premature aging; cardiac injury; AIDS; cancer;	
XX	diabetic complication.	
OS		
XX	Homo sapiens.	
XX		
PN	US2002173463-A1.	

XX	21-NOV-2002.	
PD		
XX	31-AUG-2001; 2001US-00944944.	
XX		
PR	03-DEC-1997; 97US-0067411P.	
PR	11-DEC-1997; 97US-0069278P.	
PR	11-DEC-1997; 97US-0069334P.	
PR	11-DEC-1997; 97US-0069335P.	
PR	12-DEC-1997; 97US-0069425P.	
PR	16-DEC-1997; 97US-0069694P.	
PR	16-DEC-1997; 97US-0069696P.	
PR	16-DEC-1997; 97US-0069702P.	
PR	17-DEC-1997; 97US-0069870P.	
PR	17-DEC-1997; 97US-0069873P.	
PR	18-DEC-1997; 97US-0068017P.	
PR	05-JAN-1998; 98US-0070440P.	
PR	09-FEB-1998; 98US-0074086P.	
PR	09-FEB-1998; 98US-0074092P.	
PR	25-FEB-1998; 98US-0075945P.	
PR	16-SEP-1998; 98WO-US019330.	
PR	01-DEC-1998; 98WO-US025108.	
PR	16-DEC-1998; 98US-0112850P.	
PR	22-DEC-1998; 98US-0113296P.	
PR	02-JUN-1999; 99WO-US012252.	
PR	28-JUL-1999; 99US-0146222P.	
PR	15-SEP-1999; 99WO-US021090.	
PR	30-NOV-1999; 99WO-US028313.	
PR	30-NOV-1999; 99WO-US028409.	
PR	01-DEC-1999; 99WO-US028301.	
PR	16-DEC-1999; 99WO-US030095.	
PR	11-FEB-2000; 2000WO-US003365.	
PR	22-FEB-2000; 2000WO-US004414.	
PR	02-MAR-2000; 2000WO-US005841.	
PR	30-MAR-2000; 2000WO-US008439.	
PR	22-MAY-2000; 2000WO-US014042.	
PR	28-JUL-2000; 2000WO-US020710.	
PR	01-DEC-2000; 2000WO-US032678.	
PR	28-FEB-2001; 2001WO-US006520.	
PR	25-MAY-2001; 2001US-00866028.	
XX	(GETH) GENENTECH INC.	
PA	Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;	
XX	Gerritsen ME, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL;	
PI	Hillan KJ, Kljavin IJ, Napier MA, Roy MA, Tumas D, Wood WI;	
XX	WPI; 2003-311003/30.	
DR	N-PSDB; ABX96821.	
XX		
XX	New transmembrane polypeptides and polynucleotides useful for chromosome	
PT	identification, tissue typing, gene therapy, in chromosome and gene	
PT	mapping, or as molecular weight markers.	
XX		
PS	Claim 12; Fig 26; 172pp; English.	
XX		
CC	The invention relates to an isolated nucleic acid encoding a secreted/	
CC	transmembrane polypeptide (designated as PRO proteins). 15 PRO	
CC	polypeptides and their encoding polynucleotides are disclosed. Also	
CC	included are a vector comprising the PRO nucleic acid, a host cell	
CC	comprising the vector, a process for producing a PRO polypeptide (by	
CC	culturing the host cell under conditions for the expression of the PRO	
CC	polypeptide, and recovering the PRO polypeptide from the cell culture, an	
CC	isolated polypeptide having at least 80% amino acid sequence identity to	
CC	the PRO polypeptides, a chimeric molecule comprising PRO fused to a	
CC	heterologous amino acid sequence and an antibody which specifically binds	
CC	to PRO. The PRO nucleotide sequences are useful as hybridisation probes,	
CC	in chromosome and gene mapping, in generating sense and antisense RNA or	
CC	DNA, in generating transgenic or knock-out animals which can be used in	
CC	the development and screening of therapeutically useful reagents, and in	
CC	gene therapy. The polypeptides may be used as molecular weight markers	
CC	for protein electrophoresis purposes. The PRO polypeptides and nucleic	
CC	acids may also be used for chromosome identification, and tissue typing.	

CC PRO241 (identified as Chordin) is a candidate gene for Cornelia de Lange
CC syndrome. Other PRO proteins are variously implicated in immune
CC disorders, inflammatory disease, organ failure, atherosclerosis, cardiac
CC injury, infertility, birth defects, premature aging, cardiac injury.
CC AIDS, cancer and diabetic complications. The present sequence represents
CC a PRO protein
XX
SQ Sequence 598 AA;

Query Match 100.0%; Score 3135; DB 6; Length 598;
Best Local Similarity 100.0%; Pred. No. 3.3e-190;
Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MCSRVPLLLPLLLALLGAGVGCSPGCGCCSQPQVCTARQTTVPDPVPTVGLYVF 60
DB 1 MCSRVPLLLPLLLALLGAGVGCSPGCGCCSQPQVCTARQTTVPDPVPTVGLYVF 60

QY 61 ENGITMLDASSFAGLPGQLDLSQNTASRLPRLLLDLSHNSLLALEPGILDTANVE 120
DB 61 ENGITMLDASSFAGLPGQLDLSQNTASRLPRLLLDLSHNSLLALEPGILDTANVE 120

QY 121 ALRLAGLGLQQLDEGLFSRLNHLHDLDVSDNQLERVPVIRGLRGLTRLRAGNTRIAQL 180
DB 121 ALRLAGLGLQQLDEGLFSRLNHLHDLDVSDNQLERVPVIRGLRGLTRLRAGNTRIAQL 180

QY 181 RPEDLAGLAALQELDVSNLSQALPGDLSGLFPRLRLAAARNPNCVCLSWFGPWVRE 240
DB 181 RPEDLAGLAALQELDVSNLSQALPGDLSGLFPRLRLAAARNPNCVCLSWFGPWVRE 240

QY 241 SHVTLASPEETCHPPKKNAGRLLELDYADFGCPATTTTATVTRPVVREPTALSSSL 300
DB 241 SHVTLASPEETCHPPKKNAGRLLELDYADFGCPATTTTATVTRPVVREPTALSSSL 300

QY 301 APTWLSPTAPATEAPSPSTAPTPTGVPVPODPCPPSTCLNGTCHLGRHHLACLCPG 360
DB 301 APTWLSPTAPATEAPSPSTAPTPTGVPVPODPCPPSTCLNGTCHLGRHHLACLCPG 360

QY 361 FTGLYCESQMGQGTPT 420
DB 361 FTGLYCESQMGQGTPT 420

QY 421 LTYRNLSPGDKRLVTLRLPASLAETVTLRPNATYSVCVMPILGPRVPEGEACEAHT 480
DB 421 LTYRNLSPGDKRLVTLRLPASLAETVTLRPNATYSVCVMPILGPRVPEGEACEAHT 480

QY 481 PPAVHSNHAPVTQAREGNPLLIAPALAAVLLAALAAVCAAYCVRGRMAAAADKGV 540
DB 481 PPAVHSNHAPVTQAREGNPLLIAPALAAVLLAALAAVCAAYCVRGRMAAAADKGV 540

QY 541 GFGAGPLEGKVKVPLEPGPKATEGGGEALPSGSECEVLMGFPGLQSPILHAKPYI 598
DB 541 GFGAGPLEGKVKVPLEPGPKATEGGGEALPSGSECEVLMGFPGLQSPILHAKPYI 598

RESULT 10
ABUS8361
ID ABUS8361 standard; protein; 598 AA.
XX
AC ABUS8361;
XX
DT 14-APR-2003 (first entry)
XX
DE Novel human secreted protein PRO357.
XX
KW Human; antiinflammatory; antiarteriosclerotic; cardiant; gynecological;
KW anti-HIV; cytostatic; antidiabetic; BMP-agonist; BMP-Antagonist;
KW cytokine-agonist; cytokine-antagonist; gene-Therapy;
KW inflammatory disease; organ failure; atherosclerosis; cardiac injury;
KW infertility; birth defect; premature aging; AIDS; cancer;
KW diabetic complication.
XX
OS Homo sapiens.
XX

PN US2002150976-A1.
XX 17-OCT-2002.
XX 30-AUG-2001; 2001US-00943851.
XX 03-DEC-1997; 97US-0067411P.
PR 11-DEC-1997; 97US-0069278P.
PR 11-DEC-1997; 97US-0069334P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 16-DEC-1997; 97US-0069694P.
PR 16-DEC-1997; 97US-0069696P.
PR 16-DEC-1997; 97US-0069702P.
PR 17-DEC-1997; 97US-0069870P.
PR 17-DEC-1997; 97US-0069873P.
PR 05-JAN-1998; 98US-007040P.
PR 09-FEB-1998; 98US-007408P.
PR 09-FEB-1998; 98US-0074092P.
PR 25-FEB-1998; 98US-0075945P.
PR 16-SEP-1998; 98WO-US019330.
PR 01-DEC-1998; 98WO-US025108.
PR 16-DEC-1998; 98US-00216021.
PR 16-DEC-1998; 98US-0112850P.
PR 22-DEC-1998; 98US-00218517.
PR 22-DEC-1998; 98US-0113296P.
PR 03-MAR-1999; 99US-00254311.
PR 02-JUN-1999; 99WO-US012252.
PR 28-JUL-1999; 99US-0146222P.
PR 15-SEP-1999; 99WO-US021090.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028409.
PR 16-DEC-1999; 99WO-US030095.
PR 11-FEB-2000; 2000WO-US003565.
PR 22-FEB-2000; 2000WO-US004414.
PR 02-MAR-2000; 2000WO-US005841.
PR 30-MAR-2000; 2000WO-US008439.
PR 22-MAY-2000; 2000WO-US014042.
PR 28-JUL-2000; 2000WO-US020710.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 25-MAY-2001; 2001US-00866028.
XX
(GETH) GENENTECH INC.
PA Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;
PI Gerritsen ME, Goddard A, Godowski FJ, Grimaldi JC, Gurney AL;
PI Hillan KJ, Kijavini IJ, Napier MA, Roy MA, Tumas D, Wood WI;
XX WPI; 2003-198285/19.
DR N-PSDB; ABX78475.
XX
XX New isolated PRO polypeptide and encoding nucleic acids, useful for the
PT diagnosis and treatment of disorders such as inflammatory disease,
PT atherosclerosis, cardiac injury, infertility, AIDS, cancer and diabetic
PT complications.
XX
XX Claim 12; Fig 26; 17lpp; English.
PS
XX The invention describes a novel isolated PRO polypeptide. The methods and
CC compositions of the present invention are useful for the diagnosis and
CC treatment of disorders such as inflammatory disease, organ failure,
CC atherosclerosis, cardiac injury, infertility, birth defects, premature
CC aging, AIDS, cancer, diabetic complications and mutations in general.
CC This is the amino acid sequence of a novel human secreted PRO protein
XX
SQ Sequence 598 AA;

Query Match 100.0%; Score 3135; DB 6; Length 598;
Best Local Similarity 100.0%; Pred. No. 3.3e-190;
Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MCSRVPILLPLILLALGPGVQCPCGCGCQSQPQTVFCTARQGTTPRDRVPPDVTGLYVF 60
Db 1 MCSRVPILLPLILLALGPGVQCPCGCGCQSQPQTVFCTARQGTTPRDRVPPDVTGLYVF 60
QY 61 ENGITMLDASSFAGLPGQLQLDLSONQIASLRLPRLLLDLSHNSLLALEPGILDVANVE 120
Db 61 ENGITMLDASSFAGLPGQLQLDLSONQIASLRLPRLLLDLSHNSLLALEPGILDVANVE 120
QY 121 ALRLAGLGLQDLDEGLFSRLRNLDLSDVSNQLERVPPVIRGLRGLTRLRAGNTRIAQL 180
Db 121 ALRLAGLGLQDLDEGLFSRLRNLDLSDVSNQLERVPPVIRGLRGLTRLRAGNTRIAQL 180
QY 181 RPEDLAGLAALQELDVSNLSLQALPGDLGSLFPRRLLLAAARNPNCVPLSWFGPWVRE 240
Db 181 RPEDLAGLAALQELDVSNLSLQALPGDLGSLFPRRLLLAAARNPNCVPLSWFGPWVRE 240
QY 241 SHVTLASPEETRCRCHFPKKNAGRLLELDYADFGCPATTTTATVPTTRPVVREPTALSSSL 300
Db 241 SHVTLASPEETRCRCHFPKKNAGRLLELDYADFGCPATTTTATVPTTRPVVREPTALSSSL 300
QY 301 APTWLSPTAPATEAPSPSTAPPTVGPVPOQDCPPSTCLNGGTCHLGRHHLACLCPGEG 360
Db 301 APTWLSPTAPATEAPSPSTAPPTVGPVPOQDCPPSTCLNGGTCHLGRHHLACLCPGEG 360
QY 361 FTGLYCSQMGQGRTPSPPTVTPRPRSLTLGIBVPVPSLTVRGLRYLQSSVQLRSLR 420
Db 361 FTGLYCSQMGQGRTPSPPTVTPRPRSLTLGIBVPVPSLTVRGLRYLQSSVQLRSLR 420
QY 421 LTYRNLSGPDKRLVTLRPLASLAETVTLRPNATYSVCVMPLGPGVPEGEACGAHT 480
Db 421 LTYRNLSGPDKRLVTLRPLASLAETVTLRPNATYSVCVMPLGPGVPEGEACGAHT 480
QY 481 PPVHNSHAPVTOAREGNLPLLIAPALAAVLLAALAAVGAAYCVRGRMAAAADQKGV 540
Db 481 PPVHNSHAPVTOAREGNLPLLIAPALAAVLLAALAAVGAAYCVRGRMAAAADQKGV 540
QY 541 GPGAGPLEGVKVPLEBPKATGGGEGALPSGSECEVPLMGFPGLQPLHAKPYI 598
Db 541 GPGAGPLEGVKVPLEBPKATGGGEGALPSGSECEVPLMGFPGLQPLHAKPYI 598

RESULT 11

ABUS7247
ID ABUS7247 standard; protein; 598 AA.
XX AC ABUS7247;
XX DT 04-APR-2003 (first entry)
XX DE Human PRO357 protein.
XX KW Human; antiinflammatory; antiarteriosclerotic; cardiac;
KW anti-inferility; anti-HIV; cytostatic; antidiabetic; transmembrane;
KW antiinflammatory; anti-HIV; antiarteriosclerotic; cardiac; inferility;
KW anti-inferility; cytostatic; antidiabetic; gene therapy; birth defect;
KW inflammatory disease; organ failure; atherosclerosis; cardiac injury;
KW premature aging; AIDS; cancer; diabetic complication.
OS Homo sapiens.
XX PN US2002142958-A1.
XX PD 03-OCT-2002.
XX PF 30-AUG-2001; 2001US-00943762.
XX PR 16-SEP-1998; 98WO-US019330.
PR 01-DEC-1998; 98WO-US025108.
PR 22-JUN-1999; 99WO-US012252.
PR 15-SEP-1999; 99WO-US021090.
PR 30-NOV-1999; 99WO-US028313.
PR 30-NOV-1999; 99WO-US028409.

PR 01-DEC-1999; 99WO-US028301.
PR 16-DEC-1999; 99WO-US030095.
PR 11-FEB-2000; 2000WO-US003565.
PR 22-FEB-2000; 2000WO-US004414.
PR 02-MAR-2000; 2000WO-US005841.
PR 30-MAR-2000; 2000WO-US008439.
PR 22-MAY-2000; 2000WO-US014042.
PR 28-JUL-2000; 2000WO-US020710.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 25-MAY-2001; 2001US-00866028.
XX (GETH) GENENTECH INC.
XX PA Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;
PI Gerritsen ME, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL;
PI Hillan KJ, Kljavin IJ, Napier MA, Roy MA, Tumas D, Wood WI;
XX WPI; 2003-174140/17.
DR N-PSDB; ABX77108.
XX
XX New secreted and transmembrane nucleic acids and polypeptides, designated
PT as PRO, useful for treating inflammation, organ failure, atherosclerosis,
PT cardiac injury, infertility, birth defects, premature aging, AIDS, or
PT cancer.
XX Claim 1; Fig 26; 173pp; English.
XX
XX This invention relates to a nucleotide sequence encoding an isolated
CC secreted and/or transmembrane protein. The nucleotide sequences of the
CC invention may have antiinflammatory, antiarteriosclerotic, cardiac, anti
CC -inferility, anti-HIV, cytostatic and antidiabetic activities and may be
CC used in gene therapy. The nucleic acids and polypeptides are useful for
CC treating inflammatory diseases, organ failure, atherosclerosis, cardiac
CC injury, inferility, birth defects, premature aging, AIDS, cancer, or
CC diabetic complications. The nucleic acids are useful as hybridisation
CC probes, in chromosome and gene mapping, and in generating antisense RNA
CC or DNA. The polypeptides are useful as pharmaceuticals, diagnostics,
CC biosensors or bioreactors. Both are useful in tissue typing. The present
CC sequence represents a protein encoded by the nucleic acids of the
CC invention
XX
SQ Sequence 598 AA;

Query Match 100.0%; Score 3135; DB 6; Length 598;
Best Local Similarity 100.0%; Pred. No. 3.3e-190;
Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MCSRVPILLPLILLALGPGVQCPCGCGCQSQPQTVFCTARQGTTPRDRVPPDVTGLYVF 60
Db 1 MCSRVPILLPLILLALGPGVQCPCGCGCQSQPQTVFCTARQGTTPRDRVPPDVTGLYVF 60
QY 61 ENGITMLDASSFAGLPGQLQLDLSONQIASLRLPRLLLDLSHNSLLALEPGILDVANVE 120
Db 61 ENGITMLDASSFAGLPGQLQLDLSONQIASLRLPRLLLDLSHNSLLALEPGILDVANVE 120
QY 121 ALRLAGLGLQDLDEGLFSRLRNLDLSDVSNQLERVPPVIRGLRGLTRLRAGNTRIAQL 180
Db 121 ALRLAGLGLQDLDEGLFSRLRNLDLSDVSNQLERVPPVIRGLRGLTRLRAGNTRIAQL 180
QY 181 RPEDLAGLAALQELDVSNLSLQALPGDLGSLFPRRLLLAAARNPNCVPLSWFGPWVRE 240
Db 181 RPEDLAGLAALQELDVSNLSLQALPGDLGSLFPRRLLLAAARNPNCVPLSWFGPWVRE 240
QY 241 SHVTLASPEETRCRCHFPKKNAGRLLELDYADFGCPATTTTATVPTTRPVVREPTALSSSL 300
Db 241 SHVTLASPEETRCRCHFPKKNAGRLLELDYADFGCPATTTTATVPTTRPVVREPTALSSSL 300
QY 301 APTWLSPTAPATEAPSPSTAPPTVGPVPOQDCPPSTCLNGGTCHLGRHHLACLCPGEG 360
Db 301 APTWLSPTAPATEAPSPSTAPPTVGPVPOQDCPPSTCLNGGTCHLGRHHLACLCPGEG 360
QY 361 FTGLYCSQMGQGRTPSPPTVTPRPRSLTLGIBVPVPSLTVRGLRYLQSSVQLRSLR 420

361 FTGLYCESQMGQCTRPSPTPVTPRPRLTLGIEPVSPSLRVGLQRYLQGSSVQLRSLR 420
QY

Db 361 FTGLYCESOMGOGTRPSP⁷TPVTPRP⁸PRSLTLGIEPVSPTSIRVGLQRYLQCSSVQLRSLR 420

QY 421 LTYRNLSPDKELVTLRLPASLAETVTTOLRNATYSVCMPLGPRVPEGEACGEAHT 480
Db 421 LTYRNLSPDKRLVTLRLPASLAETVTTOLRNATYSVCMPLGPRVPEGEACGEAHT 480
QY 481 PPAVHSNHPVTQAREGNLPLLLIAPALAAVLLAALAAVGAAYCVRRGRAMAAAKQKQV 540
Db 481 PPAVHSNHPVTQAREGNLPLLLIAPALAAVLLAALAAVGAAYCVRRGRAMAAAKQKQV 540
QY 541 GPGAGPLEGVKVPLEPGPKATGEGGALPSGSECEVPLMGFPQGLQSPHAKPYI 598
Db 541 GPGAGPLEGVKVPLEPGPKATGEGGALPSGSECEVPLMGFPQGLQSPHAKPYI 598

RESULT 13

ABU60352
ID ABU60352 standard; protein; 598 AA.

AC ABU60352;

DT 28-APR-2003 (first entry)

DE Novel human secreted and transmembrane protein PRO357.

XX Secreted and transmembrane polypeptide; PRO; tissue typing; gene therapy;
KW transgenic; knockout animal; inflammatory disease; organ failure;
KW atherosclerosis; cardiac injury; infertility; birth defect;
KW premature aging; acquired immunodeficiency syndrome; AIDS; cancer;
KW diabetic complication; immune system disorder; proteoglycan release;
KW sports-related joint problem; human; articular cartilage defect;
KW osteoarthritis; rheumatoid arthritis;
KW vascular endothelial cell growth factor stimulated proliferation;
KW endothelial cell growth; VEGF stimulated proliferation.

XX Homo sapiens.

PN US2002168715-A1.

XX 14-NOV-2002.

XX 31-AUG-2001; 2001US-00944896.

XX 03-DEC-1997; 97US-0067411P.

PR 11-DEC-1997; 97US-0069278P.

PR 11-DEC-1997; 97US-0069334P.

PR 11-DEC-1997; 97US-0069335P.

PR 12-DEC-1997; 97US-0069425P.

PR 16-DEC-1997; 97US-0069694P.

PR 16-DEC-1997; 97US-0069696P.

PR 16-DEC-1997; 97US-0069702P.

PR 17-DEC-1997; 97US-0069870P.

PR 17-DEC-1997; 97US-0069873P.

PR 18-DEC-1997; 97US-0068017P.

PR 05-JAN-1998; 98US-0070440P.

PR 09-FEB-1998; 98US-0074086P.

PR 09-FEB-1998; 98US-0074092P.

PR 25-FEB-1998; 98US-0075945P.

PR 16-SEP-1998; 98WO-US019330.

PR 01-DEC-1998; 98WO-US025108.

PR 16-DEC-1998; 98US-00216021.

PR 16-DEC-1998; 98US-00218517.

PR 22-DEC-1998; 98US-0013296P.

PR 03-MAR-1999; 99US-00254311.

PR 22-JUN-1999; 99WO-US012252.

PR 28-JUL-1999; 99US-0146222P.

PR 15-SEP-1999; 99WO-US021090.

PR 30-NOV-1999; 99WO-US028313.

PR 30-NOV-1999; 99WO-US028409.

PR 01-DEC-1999; 99WO-US028301.

PR 16-DEC-1999; 99WO-US030095.

PR 11-FEB-2000; 2000WO-US003565.

PR 22-FEB-2000; 2000WO-US004414.

PR 02-MAR-2000; 2000WO-US005841.
PR 30-MAR-2000; 2000WO-US008439.
PR 22-MAY-2000; 2000WO-US014042.
PR 28-JUL-2000; 2000WO-US020710.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 25-MAY-2001; 2001US-00866028.
XX (GETH) GENENTECH INC.
XX Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;
PI Gerritsen ME, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL;
PI Hillan KJ, Kljavin IJ, Napier MA, Roy MA, Tumas D, Wood WI;
XX NPI; 2003-275322/27.
XX N-PSDB; ABX89651.
XX Novel isolated PRO polypeptides e.g. PRO243, PRO299, PRO323, PRO327,
PT PRO344, and polynucleotides useful in the treatment of human disorders
PT related to immune system, and in gene therapy.
XX Claim 12; Fig 26; 173pp; English.

XX The invention describes an isolated secreted and transmembrane
CC polypeptide, designated as PRO polypeptide (I) having at least 80 %
CC identity to, a 379, 954, 737, 433, 422, 300, 243, 455, 694, 440, 598,
CC 250, 281, 431 or 235 amino acid sequence (SI), given in the
CC specification, SI lacking its associated signal peptide or extracellular
CC domain of SI with or without its associated signal peptide. (I) and the
CC polynucleotide (II) encoding it are useful in tissue typing and gene
CC therapy. (II) is also useful for generating transgenic animals or
CC knockout animals for the development and screening of therapeutically
CC useful reagents. PRO233 polypeptide is useful for treating inflammatory
CC disease, organ failure, atherosclerosis, cardiac injury, infertility,
CC birth defects, premature aging, acquired immunodeficiency syndrome
CC (AIDS), cancer and diabetic complications. The other PRO polypeptides
CC including PRO243, PRO299, PRO323, PRO327, PRO344, PRO354, PRO355,
CC PRO715, PRO353, PRO361 and PRO365 are useful for treating human disorders
CC involving the immune system. PRO241 is useful for stimulating release of
CC proteoglycans from cartilage, and thus for treating sports-related joint
CC problems, articular cartilage defects, osteoarthritis and rheumatoid
CC arthritis. (I) is also useful for inhibiting vascular endothelial cell
CC growth factor (VEGF) stimulated proliferation of endothelial cell growth.
CC This is the amino acid sequence of a novel human secreted and
CC transmembrane protein

XX Sequence 598 AA;

Query Match 100.0%; Score 3135; DB 6; Length 598;
Best Local Similarity 100.0%; Pred. No. 3 3e-190;
Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MCSRVPLLLPLLLLLALGPGVQGCPCSCQCSQPQVFTARQGTTPRDPDVTGLYVF 60
Db 1 MCSRVPLLLPLLLLLALGPGVQGCPCSCQCSQPQVFTARQGTTPRDPDVTGLYVF 60
QY 61 ENGITMLDASSFAGLPGQLLLDLSNQIASLRLPRLLLLDLSHNSLLALEPGILDANVE 120
Db 61 ENGITMLDASSFAGLPGQLLLDLSNQIASLRLPRLLLLDLSHNSLLALEPGILDANVE 120
QY 121 ALRLAGLQLOQDEGLFSRLNLHDLVDSDNQLRPPVIRGLRGLTRLAGNTRIAQL 180
Db 121 ALRLAGLQLOQDEGLFSRLNLHDLVDSDNQLRPPVIRGLRGLTRLAGNTRIAQL 180
QY 181 RPEDLAGLAAQELQDVNSLSLQALPGDLSGLFPRLRLAAARNPFCVCLPSWFGPWVRE 240
Db 181 RPEDLAGLAAQELQDVNSLSLQALPGDLSGLFPRLRLAAARNPFCVCLPSWFGPWVRE 240
QY 241 SHVTLASPEETRCHFPFKNAGRLLLELDYADFGCPATTTATVTPTRPVVEPTALSSSL 300
Db 241 SHVTLASPEETRCHFPFKNAGRLLLELDYADFGCPATTTATVTPTRPVVEPTALSSSL 300
QY 301 APTWLSPTAPATEAPSPSTAPTPTVGPVPQDCPPSTCLNGGTCHLGTRHHLACLCEG 360

Db 301 APTWLSPTAPATEAPSPPTAPTVGPVQPCPESTCLNGTCHLGRHHLACLCEP 360
QY 361 FTGLYCESQMGQGTSPPTVPTRPRSLTLGIEPVSPSLRVLQYLGSSVQLRSR 420
Db 361 FTGLYCESQMGQGTSPPTVPTRPRSLTLGIEPVSPSLRVLQYLGSSVQLRSR 420
QY 421 LTYRNLGSDPKRLVTLRLPASLAETVTLQRPNATYSVCMPLGPRVPEGEACGEAHT 480
Db 421 LTYRNLGSDPKRLVTLRLPASLAETVTLQRPNATYSVCMPLGPRVPEGEACGEAHT 480
QY 481 PPAVHSNHAPVTOAREGNPLLIAPALAAVLLAALAAVGAAYCVRGRMAAAADKQGV 540
Db 481 PPAVHSNHAPVTOAREGNPLLIAPALAAVLLAALAAVGAAYCVRGRMAAAADKQGV 540
QY 541 GFGAGPLELEGVKVPLEPGPKATEGGGEALPSGSECEVPLMGPPGLOSPHAKPYI 598
Db 541 GFGAGPLELEGVKVPLEPGPKATEGGGEALPSGSECEVPLMGPPGLOSPHAKPYI 598

RESULT 14
ABU82099
ID ABU82099 standard; protein; 598 AA.
XX AC ABU82099;
XX DT 25-JUN-2003 (first entry)
XX DE Novel human secreted and transmembrane protein PRO357.
XX KW Human; secreted and transmembrane protein; PRO; cardiac; cytostatic;
KW antitumor; hypotensive; vulnery; antiarteriosclerotic;
KW gene therapy; cardiovascular disorder; endothelial disorder;
KW angiotensin; cardiac hypertrophy; trauma; cancer;
KW age-related macular degeneration; atherosclerosis; hypertension;
KW arterial restenosis; rheumatoid arthritis; angina; myocardial infarction;
KW thrombophlebitis; lymphangitis; tumour angiogenesis; breast carcinoma;
KW liver carcinoma; wound healing; chromosome mapping; gene mapping.
XX OS Homo sapiens.
XX US2003088063-A1.
XX PD 08-MAY-2003.
XX PF 12-AUG-2002; 2002US-00219003.
XX PR 25-JUL-2000; 2000US-0220664P.
PR 01-JUN-2001; 2001WO-US017800.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-APR-2002; 2002US-00119480.
XX PA (GETH) GENENTECH INC.
XX Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;
XX WPI: 2003-393229/37.
DR N-PSDB; ACA68548.
XX One hundred and eighty seven nucleic acids encoding PRO polypeptides,
PT useful in diagnosis and treatment of cardiovascular (e.g. myocardial
PT infarction), endothelial or angiogenic disorders in a mammal.
XX Claim 11; Fig 104; 314pp; English.

XX The invention describes one hundred and eighty seven nucleic acids
CC encoding novel human secreted and transmembrane (PRO) polypeptides. The
CC PRO nucleic acids, polypeptides, agonists and antagonists are useful for
CC treating or diagnosing a cardiovascular, endothelial or angiogenic
CC disorder in a mammal, e.g. cardiac hypertrophy, trauma, cancer, age-
CC related macular degeneration, atherosclerosis, hypertension, arterial
CC restenosis, rheumatoid arthritis, angina, myocardial infarctions,

CC thrombophlebitis, lymphangitis, tumour angiogenesis (such as breast
CC carcinoma and liver carcinoma) and wound healing. The PRO nucleic acids
CC have applications in molecular biology, including use as hybridisation
CC probes, and in chromosome and gene mapping. This is the amino acid
CC sequence of a novel human secreted and transmembrane PRO polypeptide
XX Sequence 598 AA;
QY Query Match 100.0%; Score 3135; DB 6; Length 598;
Best Local Similarity 100.0%; Pred. No. 3.3e-190;
Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MCSRVPVLLPILLALLALGFGVQGCPCSCQSQPOTVCTARQTTVPDRVPPDVLGYVF 60
Db 1 MCSRVPVLLPILLALLALGFGVQGCPCSCQSQPOTVCTARQTTVPDRVPPDVLGYVF 60
QY 61 ENGITWLDASSFAGLPGQLLDLSNQIASRLPRLLLDLSHNSLLALEPGLDITANVE 120
Db 61 ENGITWLDASSFAGLPGQLLDLSNQIASRLPRLLLDLSHNSLLALEPGLDITANVE 120
QY 121 ALRLAGLGLQQLDEGLFSLRLNHLDLVSDNQLERVPVIRGLRGLTRLRAGNTRIAQL 180
Db 121 ALRLAGLGLQQLDEGLFSLRLNHLDLVSDNQLERVPVIRGLRGLTRLRAGNTRIAQL 180
QY 181 RPEDLAGLAALQELDVSNLSLOALPGDLSGLPRLLLAAARNPFCVPLSFWFGPWRE 240
Db 181 RPEDLAGLAALQELDVSNLSLOALPGDLSGLPRLLLAAARNPFCVPLSFWFGPWRE 240
QY 241 SHVTLASPEETCHPFPKKNAGRLLELDYADFGCPATTTTATVTPTRPVVREPTALSSSL 300
Db 241 SHVTLASPEETCHPFPKKNAGRLLELDYADFGCPATTTTATVTPTRPVVREPTALSSSL 300
QY 301 APTWLSPTAPATEAPSPPTAPTVGPVQPCPESTCLNGTCHLGRHHLACLCEP 360
Db 301 APTWLSPTAPATEAPSPPTAPTVGPVQPCPESTCLNGTCHLGRHHLACLCEP 360
QY 361 FTGLYCESQMGQGTSPPTVPTRPRSLTLGIEPVSPSLRVLQYLGSSVQLRSR 420
Db 361 FTGLYCESQMGQGTSPPTVPTRPRSLTLGIEPVSPSLRVLQYLGSSVQLRSR 420
QY 421 LTYRNLGSDPKRLVTLRLPASLAETVTLQRPNATYSVCMPLGPRVPEGEACGEAHT 480
Db 421 LTYRNLGSDPKRLVTLRLPASLAETVTLQRPNATYSVCMPLGPRVPEGEACGEAHT 480
QY 481 PPAVHSNHAPVTOAREGNPLLIAPALAAVLLAALAAVGAAYCVRGRMAAAADKQGV 540
Db 481 PPAVHSNHAPVTOAREGNPLLIAPALAAVLLAALAAVGAAYCVRGRMAAAADKQGV 540
QY 541 GFGAGPLELEGVKVPLEPGPKATEGGGEALPSGSECEVPLMGPPGLOSPHAKPYI 598
Db 541 GFGAGPLELEGVKVPLEPGPKATEGGGEALPSGSECEVPLMGPPGLOSPHAKPYI 598
RESULT 15
ABU11313
ID ABU11313 standard; protein; 598 AA.
XX AC ABU11313;
XX DT 10-FEB-2003 (first entry)
XX DE Human pro357 protein sequence.
XX KW Human; secreted protein; transmembrane protein; PRO241; PRO243; PRO299;
KW PRO323; PRO327; PRO344; PRO354; PRO355; PRO357; PRO715;
KW PRO353; PRO361; PRO365; gene therapy.
XX OS Homo sapiens.
XX US2002127643-A1.
XX PN 12-SEP-2002.
XX PD

PF 31-AUG-2001; 2001US-00945587.
XX 03-DEC-1997; 97US-0067411P.
PR 11-DEC-1997; 97US-0069278P.
PR 11-DEC-1997; 97US-0069334P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 12-DEC-1997; 97US-0069694P.
PR 16-DEC-1997; 97US-0069696P.
PR 16-DEC-1997; 97US-0069702P.
PR 17-DEC-1997; 97US-0069870P.
PR 17-DEC-1997; 97US-0069873P.
PR 18-DEC-1997; 97US-0068017P.
PR 05-JAN-1998; 98US-0070440P.
PR 09-FEB-1998; 98US-0074086P.
PR 09-FEB-1998; 98US-0074092P.
PR 25-FEB-1998; 98US-0075945P.
PR 16-SEP-1998; 98WO-US019330.
PR 01-DEC-1998; 98WO-US025108.
PR 16-DEC-1998; 98US-00216021.
PR 16-DEC-1998; 98US-0112850P.
PR 22-DEC-1998; 98US-00218517.
PR 22-DEC-1998; 98US-0113296P.
PR 03-MAR-1999; 99US-00254311.
PR 02-JUN-1999; 99WO-US012252.
PR 28-JUL-1999; 99US-0146222P.
PR 15-SEP-1999; 99WO-US021090.
PR 30-NOV-1999; 99WO-US028313.
PR 30-NOV-1999; 99WO-US028409.
PR 01-DEC-1999; 99WO-US028301.
PR 16-DEC-1999; 99WO-US030095.
PR 11-FEB-2000; 2000WO-US003565.
PR 22-FEB-2000; 2000WO-US004414.
PR 02-MAR-2000; 2000WO-US005841.
PR 02-MAR-2000; 2000WO-US008439.
PR 28-MAY-2000; 2000WO-US014042.
PR 28-JUL-2000; 2000WO-US020710.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 25-MAY-2001; 2001US-00866028.
XX (GETH) GENENTECH INC.
XX Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;
PI Gerritsen ME, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL;
PI Hillan KJ, Kljavin IJ, Napier MA, Roy MA, Tumas D, Wood WI;
XX WPI; 2003-066898/06.
DR N-PSDB; ABX34137.
XX
PT Novel secreted and transmembrane polypeptides useful in tissue typing and
PT preparing medicament for treating condition which is responsive to the
PT polypeptide.
XX
PS Claim 1; Fig 26; 172pp; English.
XX
CC This invention relates to the cDNA and protein sequences of a novel human
CC secreted and transmembrane proteins such as PRO241, PRO243, PRO299,
CC PRO323, PRO327, PRO344, PRO347, PRO354, PRO355, PRO357, PRO715,
CC PRO353, PRO361 and PRO365. The proteins of the invention are useful as
CC molecular weight markers for protein electrophoresis purposes, and as
CC therapeutic agents. PRO357 polypeptides are useful in assays to determine
CC if they prolong polypeptides which it may complex with to have longer
CC half-lives in vivo. The nucleotide sequences of the invention are
CC useful as hybridisation probes in chromosome and gene mapping and in the
CC generation of anti-sense RNA and DNA. The nucleotide sequence of the
CC invention is also useful in the genetic analysis of individuals with
CC genetic disorders, and in generating transgenic animals or knock out
CC animals. The cDNA sequences are further useful in gene therapy, and for
CC generating probes for polymerase chain reaction (PCR), Northern,
CC Southern, and Western blot analysis. An antibody against the proteins of
CC the invention may be useful in diagnostic assays for PRO e.g., detecting
CC its expression in specific cells, tissues or serum. The antibody may also

CC useful for the affinity purification of PRO from recombinant cell culture
CC or natural sources. The protein sequences and antibodies against them are
CC useful for preparing a medicament treatment of a condition which is
CC responsive to these. The present sequence represents a novel human
CC protein sequence of the invention
XX
SQ Sequence 598 AA;

Query Match 100.0%; Score 3135; DB 6; Length 598;
Best Local Similarity 100.0%; Pred. No. 3.3e-190;
Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 61 ENGITMLDASSFAGLPGQLQLLDLSQNIASLRLLRLLDLSHNSLLALEFGILDANVE 120
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Qy 121 ALRLAGLQLOQDEGLFSLRNLDLVDNQQLERVPVIRGLRGLTRLRAGNTRIAQL 180
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Qy 481 PPAVHSNHAPVTOAREGNLPLLIAPALAAVLLAAVGAAYCVRGRAMAAAQDKQGV 540
Db 481 PPAVHSNHAPVTOAREGNLPLLIAPALAAVLLAAVGAAYCVRGRAMAAAQDKQGV 540
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Search completed: May 12, 2005, 19:09:25
Job time : 286 secs

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OM protein - protein search, using sw model

Run on: May 12, 2005, 19:01:25 ; Search time 43 Seconds
(without alignments)
1038.143 Million cell updates/sec

Title: US-09-943-780-69
Perfect score: 3135
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Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues
Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
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Listing first 1500 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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2	3135	100.0	598	4	US-09-944-457-69
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4	337	10.6	653	4	US-09-520-781-10
5	333	10.7	590	4	US-09-520-781-12
6	322	10.3	605	3	US-09-063-950-5
7	320	10.2	660	4	US-09-907-794A-28
8	320	10.2	660	4	US-09-905-125A-28
9	320	10.2	660	4	US-09-902-775A-28
10	320	10.2	660	4	US-09-906-700-28
11	320	10.2	660	4	US-09-903-603A-28
12	320	10.2	660	4	US-09-904-920A-28
13	320	10.2	660	4	US-09-949-016-6843
14	320	10.2	660	4	US-09-909-064-28
15	320	10.2	660	4	US-09-905-381A-28
16	320	10.2	660	4	US-09-906-618-28
17	320	10.2	683	4	US-09-949-016-7267
18	310	9.9	662	4	US-09-949-016-10298
19	307.5	9.8	674	4	US-09-949-016-7204
20	302	9.6	605	1	US-08-190-802A-49
21	302	9.6	605	3	US-08-477-346-49
22	302	9.6	605	3	US-08-473-089-49
23	302	9.6	605	4	US-08-487-072A-49
24	302	9.6	605	4	US-09-538-092-1087
25	302	9.6	623	4	US-09-949-016-10995
26	301	9.6	448	4	US-09-520-781-32
27	298.5	9.5	649	3	US-09-188-930-305

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Sequence 292, App	4	US-09-907-794A-292	640	9.3	292.5	29
Sequence 292, App	4	US-09-905-125A-292	640	9.3	292.5	30
Sequence 292, App	4	US-09-902-775A-292	640	9.3	292.5	31
Sequence 292, App	4	US-09-906-700-292	640	9.3	292.5	32
Sequence 292, App	4	US-09-903-603A-292	640	9.3	292.5	33
Sequence 292, App	4	US-09-904-920A-292	640	9.3	292.5	34
Sequence 292, App	4	US-09-905-381A-292	640	9.3	292.5	35
Sequence 292, App	4	US-09-906-618-292	640	9.3	292.5	36
Sequence 292, App	4	US-09-907-794A-292	640	9.3	292.5	37
Sequence 245, App	713	US-09-905-125A-245	713	9.2	287.5	38
Sequence 245, App	713	US-09-902-775A-245	713	9.2	287.5	39
Sequence 245, App	713	US-09-906-700-245	713	9.2	287.5	40
Sequence 245, App	713	US-09-903-603A-245	713	9.2	287.5	41
Sequence 245, App	713	US-09-904-920A-245	713	9.2	287.5	42
Sequence 245, App	713	US-09-905-381A-245	713	9.2	287.5	43
Sequence 245, App	713	US-09-906-618-245	713	9.2	287.5	44
Sequence 245, App	713	US-09-907-794A-245	713	9.2	287.5	45
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Sequence 50, Appl	603	US-08-473-089-50	603	9.0	281.5	49
Sequence 50, Appl	603	US-08-487-072A-50	603	9.0	281.5	50
Sequence 6, Appl	353	US-08-986-485-6	353	8.7	271.5	51
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Sequence 6, Appl	610	US-07-821-717B-6	610	8.3	259	53
Sequence 6, Appl	610	US-08-119-262B-6	610	8.3	259	54
Sequence 11, Appl	610	US-08-135-929A-11	610	8.3	259	55
Sequence 11, Appl	610	US-08-234-265A-11	610	8.3	259	56
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Sequence 7, Appl	1480	US-09-191-647-7	1480	8.1	255.5	58
Sequence 7, Appl	1480	US-09-540-245A-7	1480	8.1	255.5	59
Sequence 7, Appl	1480	US-09-540-153-7	1480	8.1	255.5	60
Sequence 5, Appl	1480	US-09-182-024A-5	1480	8.1	255.5	61
Sequence 2, Appl	1480	PCT-US91-09055-2	1480	8.1	255.5	62
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Sequence 2, Appl	1525	US-09-540-245A-2	1525	7.9	247.5	65
Sequence 2, Appl	1525	US-09-540-153-2	1525	7.9	247.5	66
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Sequence 69, Appl	708	US-09-907-794A-69	708	7.8	244	69
Sequence 69, Appl	708	US-09-905-125A-69	708	7.8	244	70
Sequence 69, Appl	708	US-09-902-775A-69	708	7.8	244	71
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Sequence 69, Appl	708	US-09-909-064-69	708	7.8	244	75
Sequence 69, Appl	708	US-09-905-381A-69	708	7.8	244	76
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Sequence 161, App	380	US-09-461-325-161	380	7.7	241	78
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Sequence 3, Appl	560	PCT-US91-09055-3	560	7.5	236.5	85
Sequence 7, Appl	231	US-08-986-485-7	231	7.5	236.5	86
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Sequence 8, Appl	4302	US-08-422-582-8	4302	6.7	210.5	96
Sequence 8, Appl	4302	US-09-052-262-8	4302	6.7	210.5	97
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101	206	6.6	428	4	US-09-949-016-6625	Sequence 6625, Ap	174	170	5.4	907	4	US-09-170-496D-278	Sequence 278, App
102	206	6.6	433	4	US-09-949-016-8521	Sequence 8521, Ap	175	169.5	5.4	353	6	5340934-4	Patent No. 5340934
103	205	6.5	4339	3	US-09-052-469-6	Sequence 6, Appli	176	169.5	5.4	353	6	5340934-4	Patent No. 5340934
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105	205	6.5	4339	4	US-09-052-262-6	Sequence 6, Appli	178	167	5.3	1112	3	US-09-353-585-3	Sequence 3, Appli
106	203.5	6.5	4303	2	US-08-460-751-2	Sequence 2, Appli	179	166.5	5.3	224	4	US-09-482-273-174	Sequence 174, App
107	203.5	6.5	4303	4	US-09-479-467A-2	Sequence 2, Appli	180	166	5.3	1112	3	US-09-353-585-2	Sequence 2, Appli
108	200.5	6.4	302	4	US-09-482-273-105	Sequence 105, App	181	164.5	5.2	501	4	US-09-907-794A-185	Sequence 185, App
109	196.5	6.3	1338	4	US-09-631-603-2	Sequence 2, Appli	182	164.5	5.2	501	4	US-09-905-125A-185	Sequence 185, App
110	196.5	6.3	716	4	US-09-312-283C-183	Sequence 183, App	183	164.5	5.2	501	4	US-09-902-775A-185	Sequence 185, App
111	196.5	6.3	771	3	US-09-188-930-183	Sequence 183, App	184	164.5	5.2	501	4	US-09-906-700-185	Sequence 185, App
112	195	6.2	620	4	US-09-907-794A-73	Sequence 73, Appl	185	164.5	5.2	501	4	US-09-903-603A-185	Sequence 185, App
113	195	6.2	620	4	US-09-905-125A-73	Sequence 73, Appl	186	164.5	5.2	501	4	US-09-904-920A-185	Sequence 185, App
114	195	6.2	620	4	US-09-902-775A-73	Sequence 73, Appl	187	164.5	5.2	501	4	US-09-909-064-185	Sequence 185, App
115	195	6.2	620	4	US-09-906-700-73	Sequence 73, Appl	188	164.5	5.2	501	4	US-09-905-381A-185	Sequence 185, App
116	195	6.2	620	4	US-09-903-603A-73	Sequence 73, Appl	189	164.5	5.2	501	4	US-09-906-618-185	Sequence 185, App
117	195	6.2	620	4	US-09-904-920A-73	Sequence 73, Appl	190	164.5	5.2	582	4	US-09-081-149-8	Sequence 8, Appli
118	195	6.2	620	4	US-09-905-381A-73	Sequence 73, Appl	191	164.5	5.2	584	4	US-09-949-016-10752	Sequence 10752, A
119	195	6.2	620	4	US-09-906-618-73	Sequence 73, Appl	192	164	5.2	696	4	US-09-907-794A-91	Sequence 91, Appl
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121	194.5	6.2	699	4	US-09-949-016-6073	Sequence 6073, Ap	194	164	5.2	696	4	US-09-902-775A-91	Sequence 91, Appl
122	194.5	6.2	720	4	US-09-949-016-9819	Sequence 9819, Ap	195	164	5.2	696	4	US-09-906-700-91	Sequence 91, Appl
123	193.5	6.2	224	5	PCT-US91-09055-4	Sequence 4, Appli	196	164	5.2	696	4	US-09-903-603A-91	Sequence 91, Appl
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125	190	6.1	1059	4	US-09-905-125A-290	Sequence 290, App	198	164	5.2	696	4	US-09-909-064-91	Sequence 91, Appl
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133	190	6.1	1119	4	US-09-907-794A-294	Sequence 294, App	206	158	5.0	374	4	US-09-949-016-7689	Sequence 7689, Ap
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136	190	6.1	1119	4	US-09-906-700-294	Sequence 294, App	209	156	5.0	975	4	US-09-949-016-7595	Sequence 7595, Ap
137	190	6.1	1119	4	US-09-903-603A-294	Sequence 294, App	210	154.5	4.9	377	4	US-09-949-016-7949	Sequence 7949, Ap
138	190	6.1	1119	4	US-09-904-920A-294	Sequence 294, App	211	154.5	4.9	1495	4	US-08-522-726B-1	Sequence 1, Appli
139	190	6.1	1119	4	US-09-905-381A-294	Sequence 294, App	212	154.5	4.9	1495	4	US-08-337-384-1	Sequence 1, Appli
140	190	6.1	1119	4	US-09-906-618-294	Sequence 294, App	213	153.5	4.9	894	1	US-08-372-892-2	Sequence 2, Appli
141	190	6.1	1119	4	US-09-907-794A-294	Sequence 294, App	214	153.5	4.9	894	1	US-08-445-640-34	Sequence 34, Appl
142	186.5	5.9	196	5	PCT-US91-09055-6	Sequence 6, Appli	215	153.5	4.9	894	3	US-08-170-558-34	Sequence 34, Appl
143	186.5	5.9	844	4	US-09-949-016-9438	Sequence 9438, Ap	216	153.5	4.9	894	3	US-08-447-314-34	Sequence 34, Appl
144	186	5.9	440	4	US-09-538-092-999	Sequence 999, App	217	153.5	4.9	894	3	US-08-445-461-34	Sequence 34, Appl
145	186	5.9	451	4	US-09-538-092-999	Sequence 999, App	218	153.5	4.9	894	3	US-08-445-461-34	Sequence 34, Appl
146	184	5.9	320	1	US-07-613-083B-1	Sequence 1, Appli	219	153	4.9	679	4	US-09-252-991A-18857	Sequence 18857, A
147	184	5.9	368	4	US-09-949-016-6115	Sequence 6115, Ap	220	153	4.9	699	4	US-10-237-551-143	Sequence 143, App
148	184	5.9	382	4	US-09-949-016-10542	Sequence 10542, A	221	153	4.9	699	4	US-10-237-551-254	Sequence 254, App
149	183	5.8	662	4	US-09-538-092-1325	Sequence 1325, Ap	222	153	4.9	1248	4	US-10-042-810-2	Sequence 2, Appli
150	183	5.8	662	4	US-09-949-016-6619	Sequence 6619, Ap	223	153	4.9	1278	4	US-10-042-810-4	Sequence 4, Appli
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152	182.5	5.8	379	4	US-09-866-028-2	Sequence 2, Appli	225	151	4.8	532	4	US-09-270-767-46234	Sequence 46234, A
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154	182.5	5.8	958	4	US-09-706-594-5	Sequence 5, Appli	227	150.5	4.8	695	3	US-08-482-855-2	Sequence 2, Appli
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159	175	5.6	368	6	5340934-2	Patent No. 5340934	232	150	4.8	259	4	US-09-906-700-71	Sequence 71, Appl
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161	172.5	5.5	282	1	US-08-442-063A-45	Sequence 45, Appl	234	150	4.8	259	4	US-09-904-920A-71	Sequence 71, Appl
162	172.5	5.5	307	1	US-08-442-063A-48	Sequence 48, Appl	235	150	4.8	259	4	US-09-909-064-71	Sequence 71, Appl
163	172.5	5.5	333	1	US-08-442-063A-27	Sequence 27, Appl	236	150	4.8	259	4	US-09-905-381A-71	Sequence 71, Appl
164	172.5	5.5	342	1	US-08-272-919-2	Sequence 2, Appli	237	150	4.8	259	4	US-09-906-618-71	Sequence 71, Appl
165	172.5	5.5	342	1	US-08-619-916-2	Sequence 2, Appli	238	149	4.8	1012	2	US-08-475-891A-4	Sequence 4, Appli
166	172.5	5.5	342	5	PCT-US95-08542-2	Sequence 2, Appli	239	149	4.8	1025	2	US-08-567-375-4	Sequence 4, Appli
167	172.5	5.5	359	1	US-08-303-238-4	Sequence 4, Appli	240	149	4.8	1025	2	US-08-587-680A-4	Sequence 4, Appli
168	172.5	5.5	359	3	US-08-458-834-4	Sequence 4, Appli	241	149	4.8	1026	4	US-09-623-551-18	Sequence 18, Appl
169	172.5	5.5	359	4	US-09-538-092-868	Sequence 868, App	242	149	4.8	1504	4	US-09-364-206-2	Sequence 2, Appli
170	172.5	5.5	359	4	US-09-949-016-6143	Sequence 6143, Ap	243	149	4.8	1874	4	US-09-331-403-2	Sequence 2, Appli
171	172.5	5.5	360	4	US-09-949-016-7925	Sequence 7925, Ap	244	148.5	4.7	375	1	US-08-303-238-2	Sequence 2, Appli
172	170.5	5.4	373	3	US-09-724-864-43	Sequence 43, Appl	245	148.5	4.7	375	3	US-08-458-834-2	Sequence 2, Appli
173	170	5.4	907	4	US-09-170-496D-264	Sequence 264, App	246	147.5	4.7	570	4	US-09-565-501A-104	Sequence 104, App

247	147.5	4.7	570	4	US-09-639-206A-104	Sequence 104, App	320	131	4.2	180	3	US-08-986-485-8	Sequence 8, Appl
248	147.5	4.7	570	4	US-09-874-923-104	Sequence 104, App	321	131	4.2	227	4	US-10-101-464A-666	Sequence 666, App
249	147	4.7	177	4	US-09-270-767-32705	Sequence 32705, A	322	131	4.2	279	4	US-09-270-767-41558	Sequence 41558, A
250	147	4.7	177	4	US-09-270-767-47922	Sequence 47922, A	323	131	4.2	407	4	US-09-270-767-46649	Sequence 46649, A
251	147	4.7	265	4	US-09-270-767-45056	Sequence 45056, A	324	131	4.2	799	3	US-09-180-439-6	Sequence 6, Appl
252	147	4.7	214	1	US-08-227-536-2	Sequence 2, Appl	325	131	4.2	947	3	US-09-228-986-73	Sequence 73, Appl
253	147	4.7	214	4	US-09-538-092-1289	Sequence 1289, Ap	326	131	4.2	947	4	US-10-101-464A-73	Sequence 73, Appl
254	147	4.7	214	5	PCT-US95-04682-2	Sequence 2, Appl	327	131	4.2	1062	4	US-09-903-540-16313	Sequence 16313, A
255	146.5	4.7	1404	3	US-08-400-159-2	Sequence 2, Appl	328	131	4.2	1196	3	US-08-881-706-2	Sequence 2, Appl
256	146.5	4.7	1404	3	US-08-611-729A-2	Sequence 2, Appl	329	131	4.2	1196	4	US-09-823-394-2	Sequence 2, Appl
257	146.5	4.7	1404	3	US-09-195-524-2	Sequence 3, Appl	330	131	4.2	1938	4	US-09-949-016-6609	Sequence 6609, Ap
258	146	4.7	786	3	US-09-103-429A-3	Sequence 3, Appl	331	130.5	4.2	843	4	US-10-101-464A-893	Sequence 893, App
259	146	4.7	788	4	US-09-294-663-3	Sequence 3, Appl	332	130.5	4.2	878	4	US-09-556-706B-2	Sequence 2, Appl
260	146	4.7	885	1	US-08-372-892-4	Sequence 4, Appl	333	130.5	4.2	878	4	US-09-724-418A-2	Sequence 4, Appl
261	146	4.7	885	4	US-09-919-497-52	Sequence 52, Appl	334	130.5	4.2	3729	2	US-08-804-227C-4	Sequence 4, Appl
262	145.5	4.6	2142	4	US-09-538-092-1142	Sequence 1142, Ap	335	130	4.1	645	4	US-10-101-464A-920	Sequence 920, App
263	145	4.6	353	4	US-09-949-016-7923	Sequence 7923, Ap	336	129.5	4.1	550	4	US-09-252-991A-21295	Sequence 21295, A
264	144	4.6	661	1	US-08-514-014-4	Sequence 4, Appl	337	129.5	4.1	912	5	PCT-US95-03747-2	Sequence 2, Appl
265	144	4.6	661	2	US-08-833-823-4	Sequence 4, Appl	338	129	4.1	363	4	US-09-270-767-44030	Sequence 44030, A
266	143.5	4.6	1274	3	US-09-095-443-2	Sequence 2, Appl	339	129	4.1	823	4	US-09-252-991A-23655	Sequence 23655, A
267	142.5	4.5	141	4	US-09-270-767-31706	Sequence 31706, A	340	129	4.1	885	4	US-09-252-991A-26129	Sequence 26129, A
268	142.5	4.5	141	4	US-09-270-767-46923	Sequence 46923, A	341	129	4.1	1133	4	US-10-101-464A-809	Sequence 809, App
269	142.5	4.5	805	3	US-09-103-429A-4	Sequence 4, Appl	342	129	4.1	1940	2	US-08-644-271-30	Sequence 30, Appl
270	142.5	4.5	807	4	US-09-294-663-4	Sequence 4, Appl	343	129	4.1	1940	4	US-09-077-955-34	Sequence 34, Appl
271	142	4.5	365	4	US-10-101-464A-901	Sequence 901, App	344	129	4.1	2321	4	US-09-230-652-2	Sequence 2, Appl
272	140.5	4.5	345	4	US-10-101-464A-802	Sequence 802, App	345	128.5	4.1	188	1	US-08-442-063A-39	Sequence 39, Appl
273	140.5	4.5	376	1	US-08-303-238-1	Sequence 1, Appl	346	128.5	4.1	446	2	US-08-836-854-15	Sequence 15, Appl
274	140.5	4.5	376	3	US-08-458-834-1	Sequence 1, Appl	347	128.5	4.1	653	4	US-10-101-464A-953	Sequence 953, App
275	140	4.5	283	4	US-09-949-016-7910	Sequence 7910, Ap	348	128.5	4.1	864	4	US-10-101-464A-896	Sequence 896, App
276	140	4.5	547	4	US-10-101-464A-928	Sequence 928, App	349	128.5	4.1	865	4	US-09-902-540-10416	Sequence 10416, A
277	139	4.4	5179	4	US-09-538-092-1258	Sequence 1258, Ap	350	128.5	4.1	1023	2	US-08-475-891A-2	Sequence 2, Appl
278	138	4.4	323	4	US-09-949-016-7924	Sequence 7924, Ap	351	128.5	4.1	1023	2	US-08-567-375-2	Sequence 2, Appl
279	137.5	4.4	141	4	US-09-270-767-45511	Sequence 45511, A	352	128.5	4.1	1023	2	US-08-587-680A-2	Sequence 2, Appl
280	137.5	4.4	884	6	5208144-8	Patent No. 5208144	353	128	4.1	475	4	US-09-252-991A-30242	Sequence 30242, A
281	137.5	4.4	884	6	5208144-8	Patent No. 5208144	354	128	4.1	538	2	US-08-541-759B-2	Sequence 2, Appl
282	137	4.4	4544	1	US-08-469-486-52	Sequence 52, Appl	355	128	4.1	717	4	US-10-101-464A-810	Sequence 810, App
283	137	4.4	4544	2	US-08-469-658-52	Sequence 52, Appl	356	127.5	4.1	1522	4	US-10-144-198-31	Sequence 31, Appl
284	136.5	4.4	984	4	US-10-101-464A-919	Sequence 919, App	357	127.5	4.1	3969	3	US-08-061-376-5	Sequence 5, Appl
285	136.5	4.4	2972	3	US-09-579-181-2	Sequence 2, Appl	358	127.5	4.1	3969	4	US-09-538-092-1262	Sequence 1262, Ap
286	136.5	4.4	3118	3	US-09-579-181-1	Sequence 1, Appl	359	127	4.1	260	4	US-09-270-767-32658	Sequence 32658, A
287	136	4.3	692	3	US-07-757-342D-6	Sequence 6, Appl	360	127	4.1	615	4	US-09-252-991A-26695	Sequence 26695, A
288	136	4.3	692	4	US-09-461-657B-6	Sequence 6, Appl	361	126.5	4.0	141	4	US-09-270-767-32244	Sequence 32244, A
289	135.5	4.3	536	4	US-09-252-991A-31124	Sequence 31124, A	362	126.5	4.0	141	4	US-09-270-767-47461	Sequence 47461, A
290	135	4.3	446	4	US-10-101-464A-733	Sequence 733, App	363	126.5	4.0	659	4	US-09-423-753-3	Sequence 3, Appl
291	135	4.3	538	4	US-09-616-289-43	Sequence 43, Appl	364	126.5	4.0	685	3	US-08-872-855-2	Sequence 2, Appl
292	135	4.3	723	4	US-09-434-408-2	Sequence 2, Appl	365	126.5	4.0	685	4	US-09-423-753-25	Sequence 25, Appl
293	135	4.3	907	3	US-08-783-774-2	Sequence 2, Appl	366	126.5	4.0	685	4	US-09-641-612-7	Sequence 7, Appl
294	135	4.3	907	3	US-09-328-599A-1	Sequence 1, Appl	367	126.5	4.0	919	4	US-10-101-464A-642	Sequence 642, App
295	135	4.3	907	5	PCT-US95-04611A-19	Sequence 19, Appl	368	126.5	4.0	999	2	US-08-473-553A-5	Sequence 5, Appl
296	134.5	4.3	802	4	US-09-823-240A-2	Sequence 2, Appl	369	126	4.0	143	4	US-09-893-737-190	Sequence 190, App
297	134	4.3	536	4	US-09-292-225-21	Sequence 21, Appl	370	126	4.0	152	4	US-09-270-767-33594	Sequence 33594, A
298	134	4.3	550	4	US-09-616-289-47	Sequence 47, Appl	371	126	4.0	775	4	US-09-949-016-8799	Sequence 8799, Ap
299	134	4.3	555	4	US-09-292-225-15	Sequence 15, Appl	372	126	4.0	1821	4	US-09-949-016-5938	Sequence 5938, Ap
300	134	4.3	555	4	US-09-292-225-18	Sequence 18, Appl	373	125.5	4.0	440	3	US-08-985-335-3	Sequence 3, Appl
301	133.5	4.3	1166	4	US-10-101-464A-900	Sequence 900, App	374	125.5	4.0	440	3	US-09-410-372-3	Sequence 3, Appl
302	133	4.2	4391	4	US-10-006-011A-2	Sequence 2, Appl	375	125.5	4.0	764	3	US-07-741-453A-54	Sequence 54, Appl
303	132.5	4.2	390	3	US-08-460-576-2	Sequence 2, Appl	376	125.5	4.0	764	3	US-07-741-453A-60	Sequence 60, Appl
304	132.5	4.2	463	2	US-08-162-402B-9	Sequence 9, Appl	377	125.5	4.0	1129	4	US-09-023-905A-2	Sequence 2, Appl
305	132.5	4.2	579	4	US-09-325-932A-185	Sequence 185, App	378	125	4.0	757	4	US-09-252-991A-25918	Sequence 25918, A
306	132.5	4.2	583	4	US-09-641-612-2	Sequence 2, Appl	379	125	4.0	957	4	US-09-252-991A-20408	Sequence 20408, A
307	132.5	4.2	2035	1	US-08-046-585-5	Sequence 5, Appl	380	125	4.0	1139	4	US-09-513-505-2	Sequence 2, Appl
308	132.5	4.2	2035	1	US-08-393-703-5	Sequence 5, Appl	381	125	4.0	2023	4	US-09-491-356C-8	Sequence 8, Appl
309	132.5	4.2	2035	5	PCT-US93-11721-5	Sequence 5, Appl	382	125	4.0	2124	4	US-09-538-092-1377	Sequence 1377, Ap
310	132.5	4.2	2045	4	US-09-949-016-10491	Sequence 10491, A	383	125	4.0	2294	4	US-09-252-991A-17231	Sequence 17231, A
311	132.5	4.2	3122	4	US-10-237-551-201	Sequence 201, App	384	124.5	4.0	107	4	US-09-270-767-61021	Sequence 61021, A
312	132.5	4.2	3122	4	US-10-237-551-250	Sequence 250, App	385	124.5	4.0	298	3	US-09-232-160-17	Sequence 17, Appl
313	132	4.2	287	4	US-09-893-737-110	Sequence 110, App	386	124.5	4.0	298	4	US-09-800-729-87	Sequence 87, Appl
314	132	4.2	465	2	US-08-162-402B-8	Sequence 8, Appl	387	124.5	4.0	298	4	US-09-800-729-121	Sequence 121, App
315	132	4.2	705	4	US-10-101-464A-894	Sequence 894, App	388	124.5	4.0	298	4	US-10-000-489-22	Sequence 22, Appl
316	132	4.2	979	3	US-08-514-213A-2	Sequence 2, Appl	389	124.5	4.0	307	4	US-09-949-016-9817	Sequence 9817, Ap
317	132	4.2	979	4	US-09-015-393-5	Sequence 5, Appl	390	124.5	4.0	307	4	US-09-949-016-9818	Sequence 9818, Ap
318	132	4.2	1003	4	US-09-949-016-11260	Sequence 11260, A	391	124.5	4.0	546	4	US-09-907-794A-250	Sequence 250, App
319	131.5	4.2	571	4	US-09-252-991A-30533	Sequence 30533, A	392	124.5	4.0	546	4	US-09-905-125A-250	Sequence 250, App

393	124.5	4.0	546	4	US-09-902-775A-250	Sequence 250, App	466	120.5	3.8	562	4	US-09-902-540-13269	Sequence 13269, A
394	124.5	4.0	546	4	US-09-906-700-250	Sequence 250, App	467	120.5	3.8	787	3	US-09-721-383-2	Sequence 2, Appli
395	124.5	4.0	546	4	US-09-903-603A-250	Sequence 250, App	468	120.5	3.8	787	3	US-09-721-137-2	Sequence 2, Appli
396	124.5	4.0	546	4	US-09-904-920A-250	Sequence 250, App	469	120.5	3.8	787	4	US-09-721-251-2	Sequence 2, Appli
397	124.5	4.0	546	4	US-09-909-064-250	Sequence 250, App	470	120.5	3.8	787	4	US-10-114-764-2	Sequence 2, Appli
398	124.5	4.0	546	4	US-09-905-381A-250	Sequence 250, App	471	120.5	3.8	998	4	US-10-101-464A-931	Sequence 931, App
399	124.5	4.0	546	4	US-09-906-618-250	Sequence 250, App	472	120.5	3.8	1104	4	US-09-981-953A-4	Sequence 4, Appli
400	124.5	4.0	623	4	US-09-949-016-6530	Sequence 6530, App	473	120.5	3.8	1665	4	US-09-858-664A-2	Sequence 2, Appli
401	124.5	4.0	998	4	US-10-101-464A-895	Sequence 895, App	474	120.5	3.8	1665	4	US-10-274-978-2	Sequence 2, Appli
402	124.5	4.0	1042	4	US-09-252-991A-30444	Sequence 30444, A	475	120.5	3.8	1665	4	US-10-697-363-2	Sequence 2, Appli
403	124.5	4.0	1709	4	US-09-949-016-10503	Sequence 10503, A	476	120	3.8	130	4	US-09-270-767-33086	Sequence 33086, A
404	124	4.0	277	3	US-07-741-453A-80	Sequence 58, Appl	477	120	3.8	130	4	US-09-270-767-48303	Sequence 48303, A
405	124	4.0	707	3	US-09-228-986-80	Sequence 80, Appl	478	120	3.8	467	3	US-09-046-736-2	Sequence 2, Appli
406	124	4.0	707	4	US-10-101-464A-80	Sequence 80, Appl	479	120	3.8	523	2	US-08-473-553A-3	Sequence 3, Appli
407	124	4.0	1457	3	US-08-665-259-27	Sequence 27, Appl	480	120	3.8	569	4	US-09-514-245-22	Sequence 22, Appl
408	124	4.0	1457	3	US-08-762-500-27	Sequence 27, Appl	481	120	3.8	603	4	US-09-906-779-4	Sequence 4, Appli
409	124	4.0	1472	4	US-09-032-438C-119	Sequence 119, App	482	120	3.8	2556	1	US-08-185-432-17	Sequence 17, Appl
410	123.5	3.9	1312	3	US-09-041-886-19	Sequence 19, Appl	483	120	3.8	2556	4	US-08-899-232-2	Sequence 2, Appli
411	123.5	3.9	1312	4	US-09-648-281-2	Sequence 2, Appli	484	120	3.8	2556	4	US-09-121-457-2	Sequence 2, Appli
412	123.5	3.9	1312	4	US-09-707-919A-19	Sequence 19, Appl	485	120	3.8	520	4	US-09-107-433-3721	Sequence 3721, Ap
413	123.5	3.9	1312	4	US-09-083-268-3	Sequence 3, Appli	486	119.5	3.8	608	4	US-09-949-016-11148	Sequence 11148, A
414	123	3.9	383	4	US-10-101-464A-898	Sequence 898, App	487	119.5	3.8	608	4	US-09-949-016-11149	Sequence 11149, A
415	123	3.9	526	4	US-09-252-991A-23688	Sequence 23688, A	488	119.5	3.8	608	4	US-09-949-016-11150	Sequence 11150, A
416	123	3.9	557	4	US-09-248-796A-26892	Sequence 26892, A	489	119.5	3.8	608	4	US-09-949-016-11151	Sequence 11151, A
417	123	3.9	888	1	US-08-445-640-35	Sequence 35, Appl	490	119.5	3.8	1034	4	US-09-252-991A-28921	Sequence 28921, A
418	123	3.9	888	3	US-08-170-558-35	Sequence 35, Appl	491	119.5	3.8	1048	4	US-09-171-699-10	Sequence 10, Appl
419	123	3.9	888	3	US-08-447-314-35	Sequence 35, Appl	492	119.5	3.8	1149	3	US-08-560-005-5	Sequence 5, Appli
420	123	3.9	888	3	US-08-445-461-35	Sequence 35, Appl	493	119.5	3.8	1149	3	US-09-418-540-5	Sequence 5, Appli
421	123	3.9	888	4	US-09-223-490-35	Sequence 35, Appl	494	119.5	3.8	1149	4	US-09-969-528-5	Sequence 5, Appli
422	123	3.9	924	1	US-08-481-130-28	Sequence 28, Appl	495	119.5	3.8	1596	4	US-09-538-092-887	Sequence 887, App
423	123	3.9	924	1	US-08-656-984A-28	Sequence 28, Appl	496	119	3.8	304	4	US-10-101-464A-717	Sequence 717, App
424	123	3.9	924	1	US-08-485-604-28	Sequence 28, Appl	497	119	3.8	319	3	US-08-630-172-12	Sequence 12, Appl
425	123	3.9	924	2	US-08-487-595-28	Sequence 28, Appl	498	119	3.8	319	3	US-09-375-419-12	Sequence 12, Appl
426	122.5	3.9	494	4	US-09-248-796A-16546	Sequence 16546, A	499	119	3.8	528	3	US-08-928-213B-8	Sequence 8, Appli
427	122.5	3.9	585	4	US-09-641-612-5	Sequence 5, Appli	500	119	3.8	593	4	US-09-252-991A-20441	Sequence 20441, A
428	122.5	3.9	596	4	US-09-252-991A-18875	Sequence 18875, A	501	119	3.8	784	4	US-09-982-308B-23	Sequence 23, Appl
429	122.5	3.9	968	3	US-09-180-439-3	Sequence 3, Appli	502	119	3.8	1081	3	US-09-369-364A-17	Sequence 17, Appl
430	122.5	3.9	968	3	US-09-180-439-4	Sequence 4, Appli	503	118.5	3.8	171	4	US-09-270-767-47835	Sequence 47835, A
431	122.5	3.9	1016	3	US-09-180-439-8	Sequence 8, Appli	504	118.5	3.8	422	4	US-09-949-016-8251	Sequence 8251, Ap
432	122	3.9	191	4	US-09-461-325-186	Sequence 186, App	505	118.5	3.8	430	4	US-09-949-016-8782	Sequence 8782, Ap
433	122	3.9	191	4	US-10-101-542-186	Sequence 186, App	506	118.5	3.8	486	1	US-08-450-360-2	Sequence 2, Appli
434	122	3.9	191	4	US-10-115-123-186	Sequence 186, App	507	118.5	3.8	1321	2	US-08-317-310A-64	Sequence 64, Appl
435	122	3.9	206	4	US-09-461-325-412	Sequence 412, App	508	118	3.8	149	4	US-09-270-767-32618	Sequence 32618, A
436	122	3.9	206	4	US-10-012-542-412	Sequence 412, App	509	118	3.8	149	4	US-09-270-767-47835	Sequence 47835, A
437	122	3.9	206	4	US-10-115-123-412	Sequence 412, App	510	118	3.8	462	4	US-09-252-991A-20814	Sequence 20814, A
438	122	3.9	312	4	US-09-270-767-31750	Sequence 31750, A	511	118	3.8	947	4	US-09-252-991A-21335	Sequence 21335, A
439	122	3.9	328	1	US-08-414-926A-9	Sequence 9, Appli	512	118	3.8	1044	4	US-09-252-991A-18853	Sequence 18853, A
440	122	3.9	328	2	US-08-926-922-9	Sequence 9, Appli	513	118	3.8	1064	4	US-09-252-991A-17508	Sequence 17508, A
441	122	3.9	328	3	US-09-253-682-9	Sequence 9, Appli	514	118	3.8	1084	3	US-09-227-725A-3	Sequence 3, Appli
442	122	3.9	328	3	US-09-527-657-9	Sequence 9, Appli	515	118	3.8	1864	2	US-08-804-227C-3	Sequence 3, Appli
443	122	3.9	328	4	US-09-892-100-9	Sequence 9, Appli	516	118	3.8	2471	1	US-08-185-432-16	Sequence 16, Appl
444	122	3.9	481	4	US-09-949-016-9748	Sequence 9748, Ap	517	118	3.8	2471	1	US-08-083-590A-19	Sequence 19, Appl
445	122	3.9	495	4	US-09-252-991A-31949	Sequence 31949, A	518	118	3.8	2471	3	US-08-532-384-19	Sequence 19, Appl
446	122	3.9	515	4	US-09-252-991A-28127	Sequence 28127, A	519	118	3.8	2471	4	US-08-899-232-1	Sequence 1, Appli
447	122	3.9	527	4	US-09-370-838-216	Sequence 216, App	520	118	3.8	2471	4	US-09-121-457-1	Sequence 1, Appli
448	122	3.9	527	4	US-09-854-133-216	Sequence 133, Appl	521	117.5	3.7	129	4	US-09-513-999C-4304	Sequence 4304, Ap
449	121.5	3.9	320	4	US-09-325-932A-190	Sequence 190, App	522	117.5	3.7	189	4	US-10-101-464A-517	Sequence 517, App
450	121.5	3.9	477	4	US-09-252-991A-19831	Sequence 19831, A	523	117.5	3.7	190	1	US-08-441-629-4	Sequence 4, Appli
451	121.5	3.9	695	4	US-09-248-796A-18020	Sequence 18020, A	524	117.5	3.7	190	3	US-08-776-207-4	Sequence 4, Appli
452	121.5	3.9	1225	4	US-09-501-171-4	Sequence 4, Appli	525	117.5	3.7	190	3	US-09-507-773-4	Sequence 4, Appli
453	121.5	3.9	1225	4	US-09-949-016-6063	Sequence 6063, Ap	526	117.5	3.7	190	5	PCT-US95-09172-4	Sequence 4, Appli
454	121.5	3.9	1251	5	PCT-US95-02251-3	Sequence 3, Appli	527	117.5	3.7	247	4	US-10-101-464A-730	Sequence 730, App
455	121.5	3.9	1252	1	US-08-199-780-3	Sequence 3, Appli	528	117.5	3.7	563	4	US-09-252-991A-17549	Sequence 17549, A
456	121.5	3.9	1252	2	US-08-316-650-3	Sequence 3, Appli	529	117.5	3.7	635	2	US-08-484-101B-36	Sequence 36, Appl
457	121.5	3.9	1253	3	US-08-479-722B-4	Sequence 4, Appli	530	117.5	3.7	635	2	US-08-484-101B-50	Sequence 50, Appl
458	121.5	3.9	1253	3	US-09-592-685-4	Sequence 4, Appli	531	117.5	3.7	635	3	US-08-714-524D-36	Sequence 36, Appl
459	121	3.9	499	3	US-09-049-672A-1	Sequence 1, Appli	532	117.5	3.7	635	3	US-08-714-524D-50	Sequence 50, Appl
460	121	3.9	739	4	US-09-902-540-10606	Sequence 10606, A	533	117.5	3.7	996	4	US-10-101-464A-889	Sequence 889, App
461	121	3.9	910	3	US-09-228-986-72	Sequence 72, Appl	534	117.5	3.7	996	4	US-10-101-464A-933	Sequence 933, App
462	121	3.9	910	4	US-10-101-464A-72	Sequence 72, Appl	535	117.5	3.7	1118	4	US-09-252-991A-24340	Sequence 24340, A
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464	120.5	3.8	141	1	US-08-442-063A-36	Sequence 36, Appl	537	117.5	3.7	1706	2	US-08-399-411-2	Sequence 2, Appli
465	120.5	3.8	426	4	US-09-252-991A-24450	Sequence 24450, A	538	117.5	3.7	1706	3	US-08-516-859A-2	Sequence 2, Appli

539	117.5	3.7	1706	3	US-09-586-472-2	Sequence 2, Appli	612	114.5	3.7	1162	3	US-09-298-568-2	Sequence 2, Appli
540	117.5	3.7	1706	4	US-09-528-706-2	Sequence 2, Appli	613	114.5	3.7	1162	4	US-09-410-399-2	Sequence 2, Appli
541	117	3.7	401	4	US-09-252-991A-32529	Sequence 32529, A	614	114.5	3.7	1162	4	US-09-894-273-2	Sequence 2, Appli
542	117	3.7	655	1	US-08-148-910-12	Sequence 12, Appl	615	114.5	3.7	1187	3	US-09-068-740A-7	Sequence 7, Appli
543	117	3.7	655	1	US-08-448-937A-12	Sequence 12, Appl	616	114.5	3.7	1208	3	US-09-199-865-1	Sequence 1, Appli
544	117	3.7	809	4	US-09-252-991A-31759	Sequence 31759, A	617	114.5	3.7	1208	4	US-10-213-323-1	Sequence 1, Appli
545	117	3.7	888	4	US-09-252-991A-23787	Sequence 23787, A	618	114.5	3.7	1218	2	US-08-400-159-6	Sequence 6, Appli
546	117	3.7	980	2	US-08-473-553A-6	Sequence 6, Appli	619	114.5	3.7	1218	3	US-08-611-729A-6	Sequence 6, Appli
547	117	3.7	985	3	US-09-214-278-2	Sequence 2, Appli	620	114.5	3.7	1218	3	US-08-882-046-2	Sequence 2, Appli
548	117	3.7	1055	4	US-09-855-722-2	Sequence 2, Appli	621	114.5	3.7	1218	3	US-09-068-740A-11	Sequence 11, Appl
549	117	3.7	1055	4	US-09-855-722-2	Sequence 2, Appli	622	114.5	3.7	1218	4	US-09-566-047-2	Sequence 2, Appli
550	117	3.7	1148	4	US-08-882-046-4	Sequence 4, Appli	623	114.5	3.7	1218	4	US-09-917-254-85	Sequence 85, Appl
551	117	3.7	1148	4	US-09-566-047-4	Sequence 4, Appli	624	114.5	3.7	1218	4	US-09-195-524-6	Sequence 6, Appli
552	117	3.7	1193	2	US-08-400-159-10	Sequence 10, Appl	625	114.5	3.7	1218	4	US-09-579-536C-1	Sequence 1, Appli
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556	117	3.7	1212	4	US-09-855-722-3	Sequence 3, Appli	629	114	3.6	111	3	US-09-220-528-53	Sequence 53, Appl
557	117	3.7	1238	3	US-09-214-278-5	Sequence 5, Appli	630	114	3.6	224	4	US-09-220-528-29	Sequence 29, Appl
558	117	3.7	1238	4	US-09-855-722-5	Sequence 5, Appli	631	114	3.6	224	4	US-09-347-613C-16	Sequence 16, Appl
559	117	3.7	1257	3	US-08-611-729A-8	Sequence 8, Appli	632	114	3.6	224	4	US-09-662-183A-16	Sequence 16, Appl
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561	116.5	3.7	132	4	US-10-101-464A-572	Sequence 572, App	634	114	3.6	631	4	US-09-270-767-44123	Sequence 44123, A
562	116.5	3.7	236	4	US-09-270-767-37980	Sequence 37980, A	635	114	3.6	644	4	US-08-866-757-2	Sequence 2, Appli
563	116.5	3.7	296	4	US-09-270-767-53197	Sequence 53197, A	636	114	3.6	644	3	US-09-153-593-2	Sequence 2, Appli
564	116.5	3.7	943	3	US-08-476-515A-12	Sequence 12, Appl	637	114	3.6	875	3	US-09-150-460B-7	Sequence 7, Appli
565	116.5	3.7	943	3	US-08-652-877-12	Sequence 12, Appl	638	114	3.6	1063	1	US-08-093-453B-3	Sequence 3, Appli
566	116.5	3.7	1252	4	US-09-302-540-13967	Sequence 13967, A	639	114	3.6	1063	1	US-08-127-499A-8	Sequence 8, Appli
567	116.5	3.7	2887	3	US-08-462-467B-8	Sequence 8, Appli	640	114	3.6	1063	1	US-08-482-847-8	Sequence 8, Appli
568	116.5	3.7	4654	3	US-08-476-515B-84	Sequence 84, Appl	641	114	3.6	1065	2	US-08-400-159-8	Sequence 8, Appli
569	116.5	3.7	4655	3	US-08-652-877-84	Sequence 84, Appl	642	114	3.6	1290	3	US-09-150-460B-6	Sequence 6, Appli
570	116.5	3.7	4655	3	US-08-652-877-88	Sequence 88, Appl	643	114	3.6	3571	4	US-09-911-842A-2	Sequence 2, Appli
571	116.5	3.7	4655	3	US-08-652-877-90	Sequence 90, Appl	644	113.5	3.6	685	4	US-10-101-464A-918	Sequence 918, App
572	116.5	3.7	4655	3	US-08-652-877-90	Sequence 90, Appl	645	113.5	3.6	841	4	US-09-252-991A-26919	Sequence 26919, A
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575	116	3.7	1053	4	US-09-513-505-8	Sequence 8, Appli	648	113.5	3.6	1218	4	US-09-855-722-7	Sequence 7, Appli
576	116	3.7	1181	4	US-09-826-509-587	Sequence 587, App	649	113	3.6	175	4	US-10-101-464A-801	Sequence 801, App
577	116	3.7	1291	3	US-09-150-460B-10	Sequence 10, Appl	650	113	3.6	369	4	US-09-252-991A-25394	Sequence 25394, A
578	116	3.7	1291	3	US-09-220-641-5	Sequence 5, Appli	651	113	3.6	688	3	US-09-367-206-20	Sequence 20, Appl
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580	116	3.7	2556	3	US-08-532-384-20	Sequence 20, Appl	653	113	3.6	979	4	US-09-538-092-990	Sequence 990, App
581	115.5	3.7	138	3	US-09-191-647-4	Sequence 4, Appli	654	113	3.6	1247	4	US-09-501-171-6	Sequence 6, Appli
582	115.5	3.7	138	3	US-09-540-245A-4	Sequence 4, Appli	655	112.5	3.6	328	4	US-09-252-991A-17729	Sequence 17729, A
583	115.5	3.7	138	4	US-09-540-153-4	Sequence 4, Appli	656	112.5	3.6	677	1	US-08-188-582-13	Sequence 13, Appl
584	115.5	3.7	412	4	US-09-252-991A-24484	Sequence 24484, A	657	112.5	3.6	677	1	US-08-646-715-13	Sequence 13, Appl
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586	115.5	3.7	1093	3	US-08-845-860B-55	Sequence 55, Appl	659	112.5	3.6	694	4	US-09-949-016-8774	Sequence 8774, Ap
587	115.5	3.7	1093	5	PCT-US94-04496-55	Sequence 55, Appl	660	112.5	3.6	694	4	US-09-949-016-8493	Sequence 8493, Ap
588	115	3.7	305	4	US-09-325-932A-188	Sequence 188, App	661	112.5	3.6	711	4	US-09-949-016-8493	Sequence 189, App
589	115	3.7	447	1	US-08-450-360-4	Sequence 4, Appli	662	112.5	3.6	1068	1	US-08-396-479B-12	Sequence 12, Appl
590	115	3.7	764	3	US-07-741-453A-59	Sequence 59, Appl	663	112.5	3.6	1068	1	US-08-818-823-12	Sequence 12, Appl
591	115	3.7	764	3	US-07-741-453A-61	Sequence 61, Appl	664	112.5	3.6	1078	4	US-09-949-016-9573	Sequence 9573, Ap
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594	115	3.7	1093	4	US-09-252-991A-21827	Sequence 21827, A	667	112	3.6	241	3	US-08-470-335-195	Sequence 195, App
595	115	3.7	1189	3	US-09-287-354-4	Sequence 4, Appli	668	112	3.6	241	3	US-08-470-339-195	Sequence 195, App
596	115	3.7	1189	4	US-09-949-016-6931	Sequence 6931, Ap	669	112	3.6	241	4	US-08-467-602-389	Sequence 389, App
597	115	3.7	1219	3	US-08-882-046-5	Sequence 5, Appli	670	112	3.6	241	4	US-08-411-295F-47	Sequence 47, Appl
598	115	3.7	1219	4	US-09-566-047-5	Sequence 5, Appli	671	112	3.6	241	4	US-08-411-295F-94	Sequence 94, Appl
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600	114.5	3.7	587	4	US-09-949-016-8708	Sequence 8708, Ap	673	112	3.6	297	3	US-09-262-653A-6	Sequence 2, Appli
601	114.5	3.7	587	4	US-09-949-016-8709	Sequence 8709, Ap	674	112	3.6	383	1	US-08-597-545-2	Sequence 2, Appli
602	114.5	3.7	661	4	US-09-949-016-9121	Sequence 9121, Ap	675	112	3.6	383	1	US-08-457-135-2	Sequence 2, Appli
603	114.5	3.7	804	4	US-10-101-464A-890	Sequence 890, App	676	112	3.6	383	4	US-09-142-027A-12	Sequence 12, Appl
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608	114.5	3.7	1017	3	US-09-965-830-6	Sequence 6, Appli	681	112	3.6	750	3	US-09-165-239A-4	Sequence 4, Appli
609	114.5	3.7	1036	3	US-09-068-740A-6	Sequence 6, Appli	682	112	3.6	764	3	US-07-757-342D-5	Sequence 5, Appli
610	114.5	3.7	1067	4	US-09-579-536C-18	Sequence 18, Appl	683	112	3.6	764	4	US-09-461-657B-5	Sequence 5, Appli
611	114.5	3.7	1162	2	US-08-728-323A-2	Sequence 2, Appli	684	112	3.6	764	4	US-09-826-509-395	Sequence 395, App

685	112	3.6	764	4	US-09-826-509-399	Sequence 399, App	758	110.5	3.5	1384	3	US-08-976-255-11	Sequence 11, Appl
686	112	3.6	764	4	US-09-826-509-403	Sequence 403, App	759	110.5	3.5	1656	4	US-09-949-016-7247	Sequence 7247, Ap
687	112	3.6	764	4	US-09-826-509-407	Sequence 407, App	760	110.5	3.5	2476	2	US-08-276-967-2	Sequence 2, Appli
688	112	3.6	764	4	US-09-826-509-411	Sequence 411, App	761	110.5	3.5	3724	2	US-08-804-227C-10	Sequence 10, Appli
689	112	3.6	764	4	US-09-826-509-415	Sequence 415, App	762	110.5	3.5	3724	2	US-08-804-198-4	Sequence 4, Appli
690	112	3.6	764	4	US-09-826-509-419	Sequence 419, App	763	110.5	3.5	11877	3	US-09-105-537-6	Sequence 6, Appli
691	112	3.6	764	4	US-09-826-509-423	Sequence 423, App	764	110	3.5	195	4	US-09-858-664A-11	Sequence 11, Appl
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693	112	3.6	902	1	US-08-818-823-6	Sequence 6, Appli	766	110	3.5	195	4	US-10-697-263-12	Sequence 12, Appl
694	112	3.6	990	4	US-10-101-464A-814	Sequence 814, App	767	110	3.5	450	3	US-09-369-364A-19	Sequence 19, Appl
695	112	3.6	1833	3	US-08-479-722B-2	Sequence 2, Appli	768	110	3.5	626	4	US-09-345-473E-43	Sequence 43, Appl
696	112	3.6	1833	4	US-09-592-685-2	Sequence 2, Appli	769	110	3.5	633	3	US-09-248-796A-18023	Sequence 18023, A
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701	111.5	3.6	320	4	US-09-252-991A-21056	Sequence 21056, A	774	110	3.5	2703	1	US-08-185-432-19	Sequence 19, Appl
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703	111.5	3.6	417	4	US-09-949-016-11098	Sequence 11098, A	776	110	3.5	2703	4	US-09-121-457-4	Sequence 4, Appli
704	111.5	3.6	445	4	US-09-252-991A-22368	Sequence 22368, A	777	109.5	3.5	297	4	US-09-252-991A-32590	Sequence 32590, A
705	111.5	3.6	766	4	US-09-902-540-10602	Sequence 10602, A	778	109.5	3.5	343	4	US-10-101-464A-892	Sequence 892, App
706	111.5	3.6	816	4	US-09-266-225D-12	Sequence 12, Appl	779	109.5	3.5	381	4	US-10-101-464A-660	Sequence 660, App
707	111.5	3.6	841	4	US-09-949-016-9797	Sequence 9797, Ap	780	109.5	3.5	400	4	US-10-101-464A-939	Sequence 939, App
708	111.5	3.6	1021	4	US-10-101-464A-954	Sequence 954, App	781	109.5	3.5	401	6	5252556-1	Patent No. 5252556
709	111.5	3.6	1298	2	US-08-690-473-2	Sequence 2, Appli	782	109.5	3.5	456	3	US-08-470-335-246	Sequence 246, App
710	111.5	3.6	1298	3	US-09-259-821A-2	Sequence 2, Appli	783	109.5	3.5	456	3	US-08-467-602-303	Sequence 303, App
711	111.5	3.6	1298	3	US-08-843-659-2	Sequence 2, Appli	784	109.5	3.5	456	4	US-08-411-295F-229	Sequence 229, App
712	111.5	3.6	1298	4	US-09-825-288A-2	Sequence 2, Appli	785	109.5	3.5	456	4	US-08-467-602-345	Sequence 345, App
713	111	3.5	237	4	US-09-252-991A-21250	Sequence 21250, A	786	109.5	3.5	490	4	US-08-411-295F-271	Sequence 271, App
714	111	3.5	267	3	US-08-818-112-142	Sequence 142, App	787	109.5	3.5	490	4	US-08-359-705B-8	Sequence 8, Appli
715	111	3.5	267	3	US-08-818-111-137	Sequence 137, App	788	109.5	3.5	612	2	US-08-286-846A-8	Sequence 8, Appli
716	111	3.5	267	3	US-09-056-556-142	Sequence 142, App	789	109.5	3.5	612	2	US-08-457-880A-8	Sequence 8, Appli
717	111	3.5	267	4	US-09-072-596-137	Sequence 137, App	790	109.5	3.5	612	3	US-08-444-622A-8	Sequence 8, Appli
718	111	3.5	267	4	US-09-072-967-142	Sequence 142, App	791	109.5	3.5	612	3	US-08-942-562-8	Sequence 8, Appli
719	111	3.5	322	4	US-09-252-991A-29259	Sequence 29259, A	792	109.5	3.5	612	3	US-09-156-923-8	Sequence 8, Appli
720	111	3.5	333	4	US-09-252-991A-19956	Sequence 19956, A	793	109.5	3.5	632	4	US-09-252-991A-25544	Sequence 25544, A
721	111	3.5	432	4	US-09-949-016-7289	Sequence 7289, Ap	794	109.5	3.5	632	3	US-09-228-986-69	Sequence 69, Appl
722	111	3.5	492	2	US-08-644-271-32	Sequence 32, Appl	795	109.5	3.5	690	3	US-10-101-464A-69	Sequence 69, Appl
723	111	3.5	492	4	US-09-077-955-36	Sequence 36, Appl	796	109.5	3.5	690	4	US-09-949-016-7806	Sequence 7806, Ap
724	111	3.5	595	4	US-09-949-016-7205	Sequence 7205, Ap	797	109.5	3.5	693	4	US-10-101-464A-940	Sequence 940, App
725	111	3.5	699	3	US-07-757-342D-2	Sequence 2, Appli	798	109.5	3.5	784	3	US-09-004-838-12	Sequence 12, Appl
726	111	3.5	699	4	US-09-461-657B-2	Sequence 2, Appli	799	109.5	3.5	784	3	US-09-150-460B-8	Sequence 8, Appli
727	111	3.5	1050	3	US-09-428-711A-16	Sequence 16, Appl	800	109.5	3.5	798	3	US-08-359-705B-6	Sequence 6, Appli
728	111	3.5	1109	4	US-09-943-016-10771	Sequence 10771, A	801	109.5	3.5	839	2	US-08-286-846A-6	Sequence 6, Appli
729	111	3.5	1203	4	US-09-949-016-6615	Sequence 6615, Ap	802	109.5	3.5	839	2	US-08-457-880A-6	Sequence 6, Appli
730	111	3.5	1318	4	US-10-237-551-197	Sequence 197, App	803	109.5	3.5	839	3	US-08-444-622A-6	Sequence 6, Appli
731	111	3.5	1358	1	US-08-404-665-4	Sequence 4, Appli	804	109.5	3.5	839	3	US-08-942-562-6	Sequence 6, Appli
732	111	3.5	1358	1	US-08-404-671-4	Sequence 4, Appli	805	109.5	3.5	839	3	US-09-156-923-6	Sequence 6, Appli
733	111	3.5	1358	1	US-08-404-781-4	Sequence 4, Appli	806	109.5	3.5	839	3	US-09-252-991A-25286	Sequence 25286, A
734	111	3.5	1540	4	US-09-949-016-11382	Sequence 11382, A	807	109.5	3.5	1235	4	US-09-949-016-8455	Sequence 8455, Ap
735	111	3.5	1540	4	US-09-949-016-11383	Sequence 11383, A	808	109.5	3.5	1235	4	US-09-949-016-8456	Sequence 8456, Ap
736	111	3.5	1650	4	US-09-252-991A-21798	Sequence 21798, A	809	109.5	3.5	163	4	US-09-252-991A-28374	Sequence 28374, A
737	111	3.5	1719	2	US-08-459-568-4	Sequence 4, Appli	810	109	3.5	221	2	US-08-480-229C-29	Sequence 29, Appl
738	111	3.5	1719	2	US-08-399-411-4	Sequence 4, Appli	811	109	3.5	221	2	US-08-659-235C-29	Sequence 29, Appl
739	111	3.5	1719	3	US-08-516-859A-4	Sequence 4, Appli	812	109	3.5	221	2	US-08-978-289-12	Sequence 12, Appl
740	111	3.5	1719	3	US-09-586-472-4	Sequence 4, Appli	813	109	3.5	416	4	US-08-601-478-1	Sequence 1, Appli
741	111	3.5	1719	4	US-09-528-706-4	Sequence 4, Appli	814	109	3.5	416	4	US-09-601-478-4	Sequence 4, Appli
742	111	3.5	2254	4	US-09-949-016-9270	Sequence 9270, Ap	815	109	3.5	433	4	US-09-252-991A-29241	Sequence 29241, A
743	111	3.5	2442	3	US-09-514-247A-10	Sequence 10, Appl	816	109	3.5	437	2	US-08-136-119-2	Sequence 2, Appli
744	111	3.5	2523	1	US-09-538-092-1370	Sequence 1370, Ap	817	109	3.5	437	1	US-08-481-814A-7	Sequence 7, Appli
745	111	3.5	2523	1	US-08-185-432-18	Sequence 18, Appl	818	109	3.5	439	4	US-09-252-991A-32620	Sequence 32620, A
746	111	3.5	2523	4	US-08-893-232-3	Sequence 3, Appli	819	109	3.5	439	4	US-08-480-229C-10	Sequence 10, Appl
747	111	3.5	2523	4	US-09-121-457-3	Sequence 3, Appli	820	109	3.5	480	2	US-08-659-235C-10	Sequence 10, Appl
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749	110.5	3.5	298	4	US-09-248-796A-26762	Sequence 26762, A	822	109	3.5	510	4	US-09-252-991A-25076	Sequence 25076, A
750	110.5	3.5	565	4	US-08-937-067-8	Sequence 8, Appli	823	109	3.5	552	4	US-09-252-991A-23036	Sequence 23036, A
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752	110.5	3.5	728	4	US-09-252-991A-31891	Sequence 31891, A	825	109	3.5	762	1	US-08-642-355-114	Sequence 114, App
753	110.5	3.5	815	4	US-09-538-092-1300	Sequence 1300, Ap	826	109	3.5	762	1	US-08-397-633A-26	Sequence 26, Appl
754	110.5	3.5	1346	3	US-09-320-878-4	Sequence 4, Appli	827	109	3.5	764	4	US-09-186-350A-53	Sequence 53, Appl
755	110.5	3.5	1346	3	US-09-105-537-37	Sequence 37, Appl	828	109	3.5	828	4	US-10-101-464A-934	Sequence 934, App
756	110.5	3.5	1346	4	US-09-141-908-5	Sequence 5, Appli	829	109	3.5	833	1	US-08-264-534-6	Sequence 6, Appli
757	110.5	3.5	1346	4	US-09-657-440-4	Sequence 4, Appli	830	109	3.5				

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832	109	3.5	833	1	US-08-465-500-6	Sequence 6, Appli	905	107.5	3.4	459	4	US-08-467-602-299	Sequence 229, App
833	109	3.5	833	1	US-08-346-126-6	Sequence 6, Appli	906	107.5	3.4	459	4	US-08-411-295F-225	Sequence 225, App
834	109	3.5	833	2	US-08-346-128-6	Sequence 6, Appli	907	107.5	3.4	493	4	US-08-467-602-341	Sequence 341, App
835	109	3.5	833	3	US-08-532-384-2	Sequence 2, Appli	908	107.5	3.4	493	4	US-08-411-295F-267	Sequence 267, App
836	109	3.5	833	3	US-08-893-828-6	Sequence 6, Appli	909	107.5	3.4	506	4	US-09-949-016-11282	Sequence 11282, A
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838	109	3.5	850	2	US-08-441-104A-7	Sequence 7, Appli	911	107.5	3.4	568	4	US-09-252-991A-19968	Sequence 19968, A
839	109	3.5	850	3	US-08-440-816A-7	Sequence 7, Appli	912	107.5	3.4	655	1	US-07-736-178C-2	Sequence 2, Appli
840	109	3.5	850	3	US-09-417-381A-7	Sequence 7, Appli	913	107.5	3.4	660	4	US-10-101-464A-808	Sequence 808, App
841	109	3.5	860	4	US-09-252-991A-28607	Sequence 28607, A	914	107.5	3.4	691	4	US-09-252-991A-31413	Sequence 31413, A
842	109	3.5	1336	2	US-08-231-193A-58	Sequence 58, Appl	915	107.5	3.4	723	4	US-09-641-612-6	Sequence 6, Appli
843	109	3.5	1336	2	US-08-486-273A-58	Sequence 58, Appl	916	107.5	3.4	787	4	US-09-252-991A-19991	Sequence 19991, A
844	109	3.5	1336	3	US-08-940-086A-58	Sequence 58, Appl	917	107.5	3.4	832	3	US-08-981-392-6	Sequence 6, Appli
845	109	3.5	1336	3	US-08-940-035A-58	Sequence 58, Appl	918	107.5	3.4	832	4	US-09-908-322-6	Sequence 6, Appli
846	109	3.5	1336	3	US-08-935-105A-58	Sequence 58, Appl	919	107.5	3.4	884	2	US-08-673-789-9	Sequence 9, Appli
847	109	3.5	1336	4	US-09-648-797-58	Sequence 58, Appl	920	107.5	3.4	998	4	US-09-949-016-6695	Sequence 6695, Ap
848	109	3.5	1336	4	US-09-386-123-58	Sequence 58, Appl	921	107.5	3.4	1088	2	US-09-233-857-13	Sequence 13, Appl
849	109	3.5	1336	4	US-10-038-937-58	Sequence 58, Appl	922	107.5	3.4	1135	2	US-08-574-959A-7	Sequence 7, Appli
850	108.5	3.5	74	4	US-09-270-767-32762	Sequence 32762, A	923	107.5	3.4	1135	3	US-09-357-014-7	Sequence 7, Appli
851	108.5	3.5	269	4	US-09-270-767-47979	Sequence 47979, A	924	107.5	3.4	1327	4	US-09-949-016-8412	Sequence 8412, Ap
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853	108.5	3.5	288	4	US-09-252-991A-32807	Sequence 32807, A	926	107.5	3.4	232	4	US-09-149-476-623	Sequence 623, App
854	108.5	3.5	281	4	US-09-510-031A-5	Sequence 5, Appli	927	107.5	3.4	288	4	US-09-252-991A-27676	Sequence 27676, A
855	108.5	3.5	404	4	US-09-550-115-11	Sequence 11, Appl	928	107.5	3.4	354	4	US-09-949-016-6051	Sequence 6051, Ap
856	108.5	3.5	542	2	US-09-252-991A-21862	Sequence 21862, A	929	107.5	3.4	358	4	US-09-949-016-8148	Sequence 8148, Ap
857	108.5	3.5	548	2	US-08-468-576B-19	Sequence 19, Appl	930	107.5	3.4	360	4	US-09-248-796A-18991	Sequence 18991, A
858	108.5	3.5	548	2	US-08-468-576B-19	Sequence 19, Appl	931	107.5	3.4	369	4	US-09-252-991A-29670	Sequence 29670, A
859	108.5	3.5	548	3	US-08-468-577B-19	Sequence 19, Appl	932	107.5	3.4	492	4	US-09-252-991A-23619	Sequence 23619, A
860	108.5	3.5	702	3	US-09-068-740A-4	Sequence 4, Appli	933	107.5	3.4	500	4	US-09-423-753-2	Sequence 2, Appli
861	108.5	3.5	723	3	US-09-068-740A-9	Sequence 9, Appli	934	107.5	3.4	541	4	US-10-101-464A-913	Sequence 913, App
862	108.5	3.5	723	4	US-09-423-753-27	Sequence 27, Appl	935	107.5	3.4	759	4	US-09-252-991A-19071	Sequence 19071, A
863	108.5	3.5	825	1	US-07-912-952-2	Sequence 2, Appli	936	107.5	3.4	793	3	US-09-252-991A-29395	Sequence 29395, A
864	108.5	3.5	827	4	US-09-248-796A-17307	Sequence 17307, A	937	107.5	3.4	806	3	US-09-588-256-10	Sequence 10, Appl
865	108.5	3.5	904	4	US-09-252-991A-23202	Sequence 23202, A	938	107.5	3.4	806	3	US-08-945-983-2	Sequence 2, Appli
866	108.5	3.5	955	4	US-09-252-991A-24254	Sequence 24254, A	939	107.5	3.4	1241	4	US-08-714-741-34	Sequence 34, Appli
867	108.5	3.5	1225	4	US-09-513-783A-152	Sequence 152, App	940	107.5	3.4	1315	3	US-08-899-595-3	Sequence 3, Appli
868	108.5	3.5	1125	4	US-09-430-656-152	Sequence 152, App	941	106.5	3.4	157	3	US-08-981-392-68	Sequence 68, Appl
869	108.5	3.5	1184	4	US-09-266-225D-18	Sequence 18, Appl	942	106.5	3.4	157	4	US-09-908-322-68	Sequence 68, Appl
870	108.5	3.5	1527	4	US-09-695-795A-4	Sequence 4, Appli	943	106.5	3.4	176	4	US-09-270-767-32581	Sequence 32581, A
871	108.5	3.5	1610	4	US-09-513-783A-22	Sequence 22, Appl	944	106.5	3.4	176	4	US-09-270-767-47798	Sequence 47798, A
872	108.5	3.5	1610	4	US-09-430-656-22	Sequence 22, Appl	945	106.5	3.4	247	4	US-09-252-991A-23672	Sequence 23672, A
873	108	3.4	152	4	US-09-214-909-22	Sequence 22, Appl	946	106.5	3.4	401	4	US-09-248-796A-28759	Sequence 28759, A
874	108	3.4	180	3	US-09-133-341-12	Sequence 12, Appl	947	106.5	3.4	420	4	US-09-902-540-13993	Sequence 13993, A
875	108	3.4	180	4	US-09-739-852-12	Sequence 12, Appl	948	106.5	3.4	423	3	US-08-702-665A-5	Sequence 5, Appli
876	108	3.4	419	4	US-10-237-551-198	Sequence 198, App	949	106.5	3.4	464	2	US-08-836-854-19	Sequence 19, Appl
877	108	3.4	590	2	US-08-785-310A-5	Sequence 5, Appli	950	106.5	3.4	464	4	US-09-366-009-7	Sequence 7, Appli
878	108	3.4	618	4	US-09-252-991A-23373	Sequence 23373, A	951	106.5	3.4	464	4	US-08-809-156B-7	Sequence 7, Appli
879	108	3.4	670	4	US-09-252-991A-33445	Sequence 33445, A	952	106.5	3.4	489	4	US-09-366-009-8	Sequence 8, Appli
880	108	3.4	703	3	US-09-367-206-5	Sequence 5, Appli	953	106.5	3.4	489	4	US-08-809-156B-8	Sequence 8, Appli
881	108	3.4	705	4	US-09-302-540-11260	Sequence 11260, A	954	106.5	3.4	575	3	US-08-922-865-2	Sequence 2, Appli
882	108	3.4	820	4	US-09-252-991A-23346	Sequence 23346, A	955	106.5	3.4	575	4	US-09-510-949-2	Sequence 2, Appli
883	108	3.4	1015	1	US-08-537-210A-1	Sequence 1, Appli	956	106.5	3.4	642	3	US-08-872-855-10	Sequence 10, Appl
884	108	3.4	1015	3	US-09-113-825-1	Sequence 1, Appli	957	106.5	3.4	974	4	US-10-101-464A-921	Sequence 921, App
885	108	3.4	1189	3	US-09-287-354-3	Sequence 3, Appli	958	106.5	3.4	1003	1	US-08-571-758-4	Sequence 4, Appli
886	108	3.4	1320	4	US-10-164-595-58	Sequence 58, Appl	959	106.5	3.4	1003	1	US-08-909-984A-4	Sequence 4, Appli
887	108	3.4	1404	4	US-10-164-595-78	Sequence 78, Appl	960	106.5	3.4	1003	1	US-08-909-983-4	Sequence 4, Appli
888	108	3.4	1411	4	US-09-949-016-10827	Sequence 10827, A	961	106.5	3.4	1075	5	PCF-US94-07297-41	Sequence 41, Appl
889	108	3.4	1618	3	US-08-462-467B-4	Sequence 4, Appli	962	106.5	3.4	1185	3	US-09-041-886-23	Sequence 23, Appl
890	108	3.4	1711	2	US-08-342-930-2	Sequence 2, Appli	963	106.5	3.4	1185	3	US-09-538-092-1209	Sequence 1209, Ap
891	108	3.4	2887	3	US-08-462-467B-2	Sequence 2, Appli	964	106.5	3.4	1185	4	US-09-252-991A-29427	Sequence 29427, A
892	108	3.4	4551	3	US-09-320-878-1	Sequence 1, Appli	965	106.5	3.4	1476	4	US-09-914-259-37	Sequence 37, Appl
893	108	3.4	4551	4	US-09-141-908-2	Sequence 2, Appli	966	106.5	3.4	1507	4	US-09-538-092-1081	Sequence 1081, Ap
894	108	3.4	4551	4	US-09-657-440-1	Sequence 1, Appli	967	106.5	3.4	2120	4	US-09-949-016-9768	Sequence 9768, Ap
895	108	3.4	4613	3	US-09-105-537-31	Sequence 31, Appl	968	106.5	3.4	3594	4	US-09-911-842A-4	Sequence 4, Appli
896	107.5	3.4	134	3	US-09-191-647-12	Sequence 12, Appl	969	106	3.4	115	4	US-09-621-976-4266	Sequence 4266, Ap
897	107.5	3.4	134	3	US-09-540-245A-12	Sequence 12, Appl	970	106	3.4	173	4	US-10-101-464A-741	Sequence 741, App
898	107.5	3.4	134	3	US-09-540-153-12	Sequence 12, Appl	971	106	3.4	254	4	US-09-252-991A-21433	Sequence 21433, A
899	107.5	3.4	260	4	US-09-270-767-46622	Sequence 46622, A	972	106	3.4	370	4	US-09-252-991A-18438	Sequence 18438, A
900	107.5	3.4	305	4	US-09-252-991A-22096	Sequence 22096, A	973	106	3.4	421	4	US-09-902-540-14807	Sequence 14807, A
901	107.5	3.4	328	4	US-09-252-991A-21969	Sequence 21969, A	974	106	3.4	448	4	US-09-949-016-10130	Sequence 10130, A
902	107.5	3.4	374	4	US-09-252-991A-28527	Sequence 28527, A	975	106	3.4	503	4	US-09-248-796A-18992	Sequence 18992, A
903	107.5	3.4	419	4	US-09-630-155-2	Sequence 2, Appli	976	106	3.4	666	4	US-09-050-739-70	Sequence 70, Appl

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978	106	3.4	762	1	US-08-642-255-120	Sequence 120, App	1051	105.5	3.4	574	3	US-09-712-495-2	Sequence 2, Appli
979	106	3.4	762	1	US-08-397-633A-31	Sequence 31, Appl	1052	105.5	3.4	695	4	US-09-538-092-1152	Sequence 1152, Ap
980	106	3.4	763	4	US-09-949-016-10382	Sequence 10382, A	1053	105.5	3.4	695	4	US-09-949-016-10102	Sequence 6102, Ap
981	106	3.4	830	3	US-08-872-855-11	Sequence 11, Appl	1054	105.5	3.4	713	4	US-09-949-016-11425	Sequence 11425, A
982	106	3.4	1214	2	US-08-231-193A-54	Sequence 54, Appl	1055	105.5	3.4	749	4	US-09-949-016-8645	Sequence 8645, Ap
983	106	3.4	1214	2	US-08-486-273A-54	Sequence 54, Appl	1056	105.5	3.4	749	4	US-09-949-016-8645	Sequence 8646, Ap
984	106	3.4	1214	3	US-08-480-474-54	Sequence 54, Appl	1057	105.5	3.4	749	4	US-09-949-016-8647	Sequence 8647, Ap
985	106	3.4	1214	3	US-08-940-086A-54	Sequence 54, Appl	1058	105.5	3.4	749	4	US-09-949-016-8648	Sequence 8648, Ap
986	106	3.4	1214	3	US-08-940-035A-54	Sequence 54, Appl	1059	105.5	3.4	766	4	US-09-949-016-11355	Sequence 11355, A
987	106	3.4	1214	3	US-08-935-105A-54	Sequence 54, Appl	1060	105.5	3.4	766	4	US-09-949-016-11355	Sequence 11356, A
988	106	3.4	1214	4	US-09-648-797-54	Sequence 54, Appl	1061	105.5	3.4	766	4	US-09-949-016-11357	Sequence 11357, A
989	106	3.4	1214	4	US-09-386-123-54	Sequence 54, Appl	1062	105.5	3.4	766	4	US-09-949-016-11358	Sequence 11358, A
990	106	3.4	1214	4	US-10-038-937-54	Sequence 54, Appl	1063	105.5	3.4	1135	2	US-08-469-537A-97	Sequence 97, Appl
991	106	3.4	1219	2	US-08-231-193A-50	Sequence 50, Appl	1064	105.5	3.4	1388	4	US-09-252-991A-20237	Sequence 20237, A
992	106	3.4	1219	2	US-08-486-273A-50	Sequence 50, Appl	1065	105.5	3.4	2220	4	US-09-335-011-1	Sequence 1, Appli
993	106	3.4	1219	3	US-08-480-474-50	Sequence 50, Appl	1066	105.5	3.4	2410	4	US-09-270-767-44775	Sequence 44775, A
994	106	3.4	1219	3	US-08-940-086A-50	Sequence 50, Appl	1067	105.5	3.4	3033	1	US-07-925-695-5	Sequence 5, Appli
995	106	3.4	1219	3	US-08-940-035A-50	Sequence 50, Appl	1068	105	3.3	196	3	US-08-981-392-35	Sequence 35, Appl
996	106	3.4	1219	3	US-08-935-105A-50	Sequence 50, Appl	1069	105	3.3	196	3	US-09-908-322-35	Sequence 35, Appl
997	106	3.4	1219	4	US-09-648-797-50	Sequence 50, Appl	1070	105	3.3	254	3	US-09-199-637A-325	Sequence 325, App
998	106	3.4	1219	4	US-09-386-123-50	Sequence 50, Appl	1071	105	3.3	422	3	US-09-151-102-2	Sequence 2, Appli
999	106	3.4	1219	4	US-10-038-937-50	Sequence 50, Appl	1072	105	3.3	422	3	US-08-929-846-2	Sequence 2, Appli
1000	106	3.4	1231	2	US-08-231-193A-48	Sequence 48, Appl	1073	105	3.3	422	3	US-08-663-584-2	Sequence 2, Appli
1001	106	3.4	1231	2	US-08-486-273A-48	Sequence 48, Appl	1074	105	3.3	424	4	US-09-949-016-7241	Sequence 7241, Ap
1002	106	3.4	1231	3	US-08-480-474-48	Sequence 48, Appl	1075	105	3.3	435	4	US-09-252-991A-24702	Sequence 24702, A
1003	106	3.4	1231	3	US-08-940-086A-48	Sequence 48, Appl	1076	105	3.3	469	4	US-09-252-991A-25438	Sequence 25438, A
1004	106	3.4	1231	3	US-08-940-035A-48	Sequence 48, Appl	1077	105	3.3	476	4	US-09-252-991A-21580	Sequence 21580, A
1005	106	3.4	1231	3	US-08-935-105A-48	Sequence 48, Appl	1078	105	3.3	511	1	US-08-220-151-17	Sequence 17, Appl
1006	106	3.4	1231	4	US-09-648-797-48	Sequence 48, Appl	1079	105	3.3	511	1	US-08-413-118-17	Sequence 17, Appl
1007	106	3.4	1231	4	US-09-386-123-48	Sequence 48, Appl	1080	105	3.3	511	3	US-08-473-446-17	Sequence 17, Appl
1008	106	3.4	1231	4	US-10-038-937-48	Sequence 48, Appl	1081	105	3.3	545	4	US-09-902-540-15915	Sequence 15915, A
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1010	106	3.4	1236	2	US-08-486-273A-6	Sequence 6, Appli	1083	105	3.3	726	4	US-09-252-991A-20675	Sequence 20675, A
1011	106	3.4	1236	3	US-08-480-474-6	Sequence 6, Appli	1084	105	3.3	811	4	US-09-252-991A-28570	Sequence 28570, A
1012	106	3.4	1236	3	US-08-940-086A-6	Sequence 6, Appli	1085	105	3.3	847	4	US-09-949-016-6222	Sequence 6222, Ap
1013	106	3.4	1236	3	US-08-940-035A-6	Sequence 6, Appli	1086	105	3.3	885	1	US-09-949-016-7789	Sequence 7789, Ap
1014	106	3.4	1236	3	US-08-935-105A-6	Sequence 6, Appli	1087	105	3.3	895	1	US-08-123-161A-8	Sequence 8, Appli
1015	106	3.4	1236	4	US-09-648-797-6	Sequence 6, Appli	1088	105	3.3	895	1	US-08-483-278-8	Sequence 8, Appli
1016	106	3.4	1236	4	US-09-386-123-6	Sequence 6, Appli	1089	105	3.3	895	1	US-09-949-016-6490	Sequence 6490, Ap
1017	106	3.4	1236	4	US-10-038-937-6	Sequence 6, Appli	1090	105	3.3	976	2	US-08-449-645A-18	Sequence 18, Appl
1018	106	3.4	1239	2	US-08-231-193A-52	Sequence 52, Appl	1091	105	3.3	976	2	US-08-702-367A-18	Sequence 18, Appl
1019	106	3.4	1239	2	US-08-486-273A-52	Sequence 52, Appl	1092	105	3.3	976	4	US-09-949-016-6499	Sequence 6499, Ap
1020	106	3.4	1239	3	US-08-480-474-52	Sequence 52, Appl	1093	105	3.3	976	5	PCT-US95-04681-18	Sequence 18, Appl
1021	106	3.4	1239	3	US-08-940-086A-52	Sequence 52, Appl	1094	105	3.3	1013	4	US-09-949-016-7991	Sequence 7991, Ap
1022	106	3.4	1239	3	US-08-940-035A-52	Sequence 52, Appl	1095	105	3.3	1151	4	US-09-023-905A-4	Sequence 4, Appli
1023	106	3.4	1239	3	US-08-935-105A-52	Sequence 52, Appl	1096	105	3.3	1587	4	US-09-949-016-11062	Sequence 11062, A
1024	106	3.4	1239	4	US-09-648-797-52	Sequence 52, Appl	1097	105	3.3	2409	6	5180808-2	Patent No. 5180808
1025	106	3.4	1239	4	US-09-386-123-52	Sequence 52, Appl	1098	105	3.3	2409	6	5180808-2	Patent No. 5180808
1026	106	3.4	1239	4	US-10-038-937-52	Sequence 52, Appl	1099	105	3.3	3730	3	US-09-949-016-9908	Sequence 9908, Ap
1027	106	3.4	1244	2	US-08-231-193A-46	Sequence 46, Appl	1100	105	3.3	3782	3	US-09-105-537-4	Sequence 4, Appli
1028	106	3.4	1244	2	US-08-486-273A-46	Sequence 46, Appl	1101	104.5	3.3	96	1	US-08-442-063A-33	Sequence 33, Appl
1029	106	3.4	1244	3	US-08-480-474-46	Sequence 46, Appl	1102	104.5	3.3	157	3	US-08-872-855-6	Sequence 6, Appli
1030	106	3.4	1244	3	US-08-940-086A-46	Sequence 46, Appl	1103	104.5	3.3	269	4	US-09-252-991A-25341	Sequence 25341, A
1031	106	3.4	1244	3	US-08-940-035A-46	Sequence 46, Appl	1104	104.5	3.3	295	4	US-09-252-991A-23612	Sequence 23612, A
1032	106	3.4	1244	3	US-08-935-105A-46	Sequence 46, Appl	1105	104.5	3.3	386	4	US-09-252-991A-28178	Sequence 28178, A
1033	106	3.4	1244	4	US-09-648-797-46	Sequence 46, Appl	1106	104.5	3.3	483	4	US-09-904-615-154	Sequence 154, App
1034	106	3.4	1244	4	US-09-386-123-46	Sequence 46, Appl	1107	104.5	3.3	503	3	US-09-599-287A-2	Sequence 2, Appli
1035	106	3.4	1244	4	US-10-038-937-46	Sequence 46, Appl	1108	104.5	3.3	635	3	US-08-470-335-247	Sequence 247, App
1036	106	3.4	1244	4	US-09-386-123-46	Sequence 46, Appl	1109	104.5	3.3	635	4	US-08-467-602-302	Sequence 302, App
1037	106	3.4	2185	1	US-07-945-283-2	Sequence 2, Appli	1110	104.5	3.3	635	4	US-08-411-295F-228	Sequence 228, App
1038	106	3.4	2245	4	US-09-854-856-36	Sequence 36, Appl	1111	104.5	3.3	644	3	US-08-470-335-250	Sequence 250, App
1039	106	3.4	2322	4	US-09-854-856-34	Sequence 34, Appl	1112	104.5	3.3	644	4	US-08-467-602-311	Sequence 311, App
1040	106	3.4	2382	4	US-09-854-856-2	Sequence 2, Appli	1113	104.5	3.3	644	4	US-08-411-295F-237	Sequence 237, App
1041	106	3.4	3647	4	US-09-949-016-10932	Sequence 10932, A	1114	104.5	3.3	669	4	US-08-467-602-344	Sequence 344, App
1042	105.5	3.4	175	4	US-09-325-932A-186	Sequence 186, App	1115	104.5	3.3	669	4	US-08-411-295F-270	Sequence 270, App
1043	105.5	3.4	301	4	US-09-252-991A-17405	Sequence 17405, A	1116	104.5	3.3	678	4	US-08-467-602-353	Sequence 353, App
1044	105.5	3.4	457	4	US-09-774-639-108	Sequence 108, App	1117	104.5	3.3	678	4	US-08-411-295F-279	Sequence 279, App
1045	105.5	3.4	486	4	US-09-538-092-1269	Sequence 1269, Ap	1118	104.5	3.3	697	4	US-09-949-016-9660	Sequence 9660, Ap
1046	105.5	3.4	486	4	US-09-949-016-6151	Sequence 6151, Ap	1119	104.5	3.3	705	4	US-10-006-011A-3	Sequence 3, Appli
1047	105.5	3.4	510	3	US-08-246-489-2	Sequence 2, Appli	1120	104.5	3.3	707	3	US-08-704-711A-19	Sequence 19, Appl
1048	105.5	3.4	559	4	US-10-116-370-2	Sequence 2, Appli	1121	104.5	3.3	707	3	US-09-521-220-19	Sequence 19, Appl
1049	105.5	3.4	567	4	US-09-949-016-10952	Sequence 10952, A	1122	104.5	3.3	707	3	US-09-391-104-20	Sequence 20, Appl

1123	104.5	3.3	707	4	US-09-949-016-6575	Sequence 6575, Ap	1196	103.5	3.3	647	4	US-08-411-295F-234	Sequence 234, App
1124	104.5	3.3	708	3	US-08-448-489-16	Sequence 16, Appl	1197	103.5	3.3	658	4	US-09-328-599A-2	Sequence 2, Appl
1125	104.5	3.3	708	4	US-09-689-730-16	Sequence 16, Appl	1198	103.5	3.3	658	4	US-08-467-602-305	Sequence 305, Appl
1126	104.5	3.3	713	4	US-09-949-016-10629	Sequence 10629, A	1199	103.5	3.3	658	4	US-08-411-295F-231	Sequence 231, App
1127	104.5	3.3	713	4	US-09-949-016-10629	Sequence 10629, A	1200	103.5	3.3	658	4	US-08-467-602-314	Sequence 314, App
1128	104.5	3.3	852	3	US-08-470-335-248	Sequence 30446, A	1201	103.5	3.3	667	4	US-08-467-602-314	Sequence 314, App
1129	104.5	3.3	852	3	US-08-470-335-248	Sequence 248, App	1202	103.5	3.3	667	4	US-08-411-295F-240	Sequence 240, App
1130	104.5	3.3	852	4	US-08-467-602-300	Sequence 300, App	1202	103.5	3.3	672	4	US-08-467-602-339	Sequence 339, App
1131	104.5	3.3	852	4	US-08-411-295F-226	Sequence 226, App	1203	103.5	3.3	672	4	US-08-411-295F-265	Sequence 265, App
1132	104.5	3.3	861	3	US-08-470-335-251	Sequence 251, App	1204	103.5	3.3	681	4	US-08-467-602-350	Sequence 350, App
1133	104.5	3.3	861	4	US-08-470-335-251	Sequence 312, App	1205	103.5	3.3	681	4	US-08-467-602-376	Sequence 276, App
1134	104.5	3.3	886	4	US-08-411-295F-238	Sequence 238, App	1206	103.5	3.3	692	4	US-08-467-602-347	Sequence 347, App
1135	104.5	3.3	886	4	US-08-467-602-342	Sequence 342, App	1207	103.5	3.3	692	4	US-08-411-295F-273	Sequence 273, App
1136	104.5	3.3	895	4	US-08-411-295F-268	Sequence 268, App	1208	103.5	3.3	692	4	US-10-101-464A-897	Sequence 897, App
1137	104.5	3.3	895	4	US-08-467-602-354	Sequence 354, App	1209	103.5	3.3	701	4	US-08-467-602-356	Sequence 356, App
1138	104.5	3.3	895	4	US-08-411-295F-280	Sequence 280, App	1210	103.5	3.3	701	4	US-08-411-295F-282	Sequence 282, App
1139	104.5	3.3	899	3	US-08-470-335-249	Sequence 249, App	1211	103.5	3.3	836	4	US-09-252-991A-26065	Sequence 26065, A
1140	104.5	3.3	899	4	US-08-467-602-301	Sequence 301, App	1212	103.5	3.3	836	4	US-09-252-991A-31525	Sequence 31525, A
1141	104.5	3.3	899	4	US-08-411-295F-227	Sequence 227, App	1213	103.5	3.3	855	3	US-08-470-335-241	Sequence 241, App
1142	104.5	3.3	908	3	US-08-470-335-252	Sequence 252, App	1214	103.5	3.3	855	4	US-08-467-602-298	Sequence 298, App
1143	104.5	3.3	908	4	US-08-467-602-313	Sequence 313, App	1215	103.5	3.3	855	4	US-08-411-295F-224	Sequence 224, App
1144	104.5	3.3	908	4	US-08-411-295F-239	Sequence 239, App	1216	103.5	3.3	864	3	US-08-470-335-244	Sequence 244, App
1145	104.5	3.3	933	4	PCT-US95-03747-3	Sequence 3, Appl	1217	103.5	3.3	864	4	US-08-467-602-309	Sequence 309, App
1146	104.5	3.3	933	4	US-08-467-602-343	Sequence 343, App	1218	103.5	3.3	864	4	US-08-411-295F-235	Sequence 235, App
1147	104.5	3.3	942	4	US-08-411-295F-269	Sequence 269, App	1219	103.5	3.3	875	4	US-08-467-602-306	Sequence 306, App
1148	104.5	3.3	942	4	US-08-467-602-355	Sequence 355, App	1220	103.5	3.3	875	4	US-08-411-295F-232	Sequence 232, App
1149	104.5	3.3	960	4	US-08-411-295F-281	Sequence 281, App	1221	103.5	3.3	884	4	US-08-467-602-315	Sequence 315, App
1150	104.5	3.3	960	4	US-09-595-424-8	Sequence 8, Appl	1222	103.5	3.3	884	4	US-08-411-295F-241	Sequence 241, App
1151	104.5	3.3	1008	4	US-09-949-016-10562	Sequence 10562, A	1223	103.5	3.3	889	4	US-08-467-602-340	Sequence 340, App
1152	104.5	3.3	1241	3	US-09-252-991A-29419	Sequence 29419, A	1224	103.5	3.3	889	4	US-08-411-295F-266	Sequence 266, App
1153	104.5	3.3	1241	3	US-09-040-774-2	Sequence 2, Appl	1225	103.5	3.3	898	4	US-08-467-602-351	Sequence 351, App
1154	104.5	3.3	1601	4	US-09-345-4738-40	Sequence 40, Appl	1226	103.5	3.3	898	4	US-08-411-295F-277	Sequence 277, App
1155	104.5	3.3	1706	4	US-09-252-991A-31760	Sequence 31760, A	1227	103.5	3.3	902	3	US-08-470-335-242	Sequence 242, App
1156	104	3.3	235	4	US-09-252-991A-25785	Sequence 25785, A	1228	103.5	3.3	902	4	US-08-467-602-296	Sequence 296, App
1157	104	3.3	235	4	US-09-602-543-4	Sequence 4, Appl	1229	103.5	3.3	902	4	US-08-411-295F-222	Sequence 222, App
1158	104	3.3	285	4	US-09-071-035-202	Sequence 202, App	1230	103.5	3.3	909	4	US-08-467-602-348	Sequence 348, App
1159	104	3.3	364	4	US-09-252-991A-22302	Sequence 22302, A	1231	103.5	3.3	911	3	US-08-411-295F-274	Sequence 274, App
1160	104	3.3	379	4	US-09-949-016-9994	Sequence 9994, Ap	1232	103.5	3.3	911	3	US-08-470-335-245	Sequence 245, App
1161	104	3.3	426	4	US-09-949-016-10372	Sequence 10372, A	1233	103.5	3.3	911	4	US-08-467-602-310	Sequence 310, App
1162	104	3.3	461	4	US-09-252-991A-21503	Sequence 21503, A	1234	103.5	3.3	911	4	US-08-411-295F-236	Sequence 236, App
1163	104	3.3	463	4	US-09-949-016-9667	Sequence 9667, Ap	1235	103.5	3.3	918	4	US-08-467-602-357	Sequence 357, App
1164	104	3.3	472	4	US-09-949-016-6090	Sequence 6090, Ap	1236	103.5	3.3	918	4	US-08-411-295F-283	Sequence 283, App
1165	104	3.3	472	4	US-09-252-991A-31978	Sequence 31978, A	1237	103.5	3.3	922	4	US-08-467-602-304	Sequence 304, App
1166	104	3.3	538	4	US-09-252-991A-32064	Sequence 32064, A	1238	103.5	3.3	922	4	US-08-411-295F-230	Sequence 230, App
1167	104	3.3	553	5	PCT-US94-00658-4	Sequence 4, Appl	1239	103.5	3.3	929	4	US-09-254-594-3	Sequence 3, Appl
1168	104	3.3	697	4	US-09-252-991A-25363	Sequence 25363, A	1240	103.5	3.3	931	4	US-08-467-602-316	Sequence 316, App
1169	104	3.3	1088	4	US-09-233-857-4	Sequence 4, Appl	1241	103.5	3.3	931	4	US-08-411-295F-242	Sequence 242, App
1170	104	3.3	1147	1	US-08-131-365B-38	Sequence 38, Appl	1242	103.5	3.3	936	4	US-08-467-602-338	Sequence 338, App
1171	104	3.3	1147	2	US-08-668-123-38	Sequence 38, Appl	1243	103.5	3.3	936	4	US-08-411-295F-264	Sequence 264, App
1172	104	3.3	1164	4	US-09-949-016-9845	Sequence 9845, Ap	1244	103.5	3.3	941	4	US-07-757-022B-14	Sequence 14, Appl
1173	103.5	3.3	177	4	US-09-949-016-9738	Sequence 9738, Ap	1245	103.5	3.3	945	4	US-08-467-602-352	Sequence 352, App
1174	103.5	3.3	179	4	US-09-252-991A-23609	Sequence 23609, A	1246	103.5	3.3	945	4	US-08-411-295F-278	Sequence 278, App
1175	103.5	3.3	333	4	US-10-148-545-177	Sequence 177, App	1247	103.5	3.3	956	4	US-08-467-602-346	Sequence 346, App
1176	103.5	3.3	415	3	US-09-006-353A-6	Sequence 561, App	1248	103.5	3.3	956	4	US-08-411-295F-272	Sequence 272, App
1177	103.5	3.3	415	3	US-09-573-986-6	Sequence 6, Appl	1249	103.5	3.3	965	4	US-08-467-602-358	Sequence 358, App
1178	103.5	3.3	429	4	US-09-252-991A-30376	Sequence 6, Appl	1250	103.5	3.3	965	4	US-08-411-295F-284	Sequence 284, App
1179	103.5	3.3	454	4	US-09-270-767-45646	Sequence 45646, A	1251	103.5	3.3	984	2	US-08-449-645A-19	Sequence 19, Appl
1180	103.5	3.3	479	4	US-08-467-602-307	Sequence 307, App	1252	103.5	3.3	984	5	PCT-US95-04681-19	Sequence 19, Appl
1181	103.5	3.3	479	4	US-08-411-295F-233	Sequence 233, App	1253	103.5	3.3	984	5	PCT-US95-04681-19	Sequence 19, Appl
1182	103.5	3.3	513	4	US-08-467-602-349	Sequence 349, App	1254	103.5	3.3	1022	4	US-07-757-022B-84	Sequence 84, Appl
1183	103.5	3.3	513	4	US-08-411-295F-275	Sequence 275, App	1255	103.5	3.3	1038	4	US-07-757-022B-74	Sequence 74, Appl
1184	103.5	3.3	529	4	US-09-252-991A-16817	Sequence 16817, A	1256	103.5	3.3	1049	4	US-07-757-022B-58	Sequence 58, Appl
1185	103.5	3.3	611	4	US-09-252-991A-32402	Sequence 32402, A	1257	103.5	3.3	1140	4	US-07-757-022B-104	Sequence 104, App
1186	103.5	3.3	629	1	US-08-478-635B-6	Sequence 6, Appl	1258	103.5	3.3	1143	2	US-08-310-912A-108	Sequence 108, App
1187	103.5	3.3	629	3	US-08-464-258B-6	Sequence 6, Appl	1259	103.5	3.3	1143	3	US-09-301-085-108	Sequence 108, App
1188	103.5	3.3	629	3	US-08-471-961-6	Sequence 6, Appl	1260	103.5	3.3	1143	5	PCT-US95-04589-108	Sequence 108, App
1189	103.5	3.3	629	4	US-09-345-109C-6	Sequence 6, Appl	1261	103.5	3.3	1144	1	US-08-261-663A-2	Sequence 2, Appl
1190	103.5	3.3	632	4	US-09-252-991A-23129	Sequence 23129, A	1262	103.5	3.3	1144	1	US-08-261-663A-4	Sequence 4, Appl
1191	103.5	3.3	638	3	US-08-470-335-240	Sequence 240, App	1263	103.5	3.3	1144	3	US-08-930-996A-9	Sequence 9, Appl
1192	103.5	3.3	638	4	US-08-467-602-297	Sequence 297, App	1264	103.5	3.3	1144	3	US-09-357-206A-3	Sequence 3, Appl
1193	103.5	3.3	638	4	US-08-411-295F-223	Sequence 223, App	1265	103.5	3.3	1144	4	US-09-813-742A-3	Sequence 3, Appl
1194	103.5	3.3	647	3	US-08-470-335-243	Sequence 243, App	1266	103.5	3.3	1144	5	PCT-US95-07754A-2	Sequence 2, Appl
1195	103.5	3.3	647	4	US-08-467-602-308	Sequence 308, App	1267	103.5	3.3	1144	5	PCT-US95-07754A-4	Sequence 4, Appl
							1268	103.5	3.3	1270	4	US-07-757-022B-44	Sequence 44, Appl

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ALIGNMENTS

RESULT 1

US-09-866-028-69

; Sequence 69, Application US/09866028

; Patent No. 6642360

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin

; APPLICANT: Botstein, David

; APPLICANT: Eaton, Dan

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Gerritsen, Mary

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul

; APPLICANT: Grimaldi, Christopher

; APPLICANT: Gurney, Austin

; APPLICANT: Hillan, Kenneth

; APPLICANT: Kljavin, Ivar

; APPLICANT: Napier, Mary

; APPLICANT: Roy, Margaret

; APPLICANT: Tumas, Daniel

; APPLICANT: Wood, William

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

; FILE REFERENCE: P2548P1C1

; CURRENT APPLICATION NUMBER: US/09/866,028

; CURRENT FILING DATE: 2001-05-25

; Prior application data removed - consult PALM or file wrapper

; NUMBER OF SEQ ID NOS: 120

; SEQ ID NO 69

; LENGTH: 598

; TYPE: PRT

; ORGANISM: Homo Sapien

US-09-866-028-69

Query Match 100.0%; Score 3135; DB 4; Length 598;

Best Local Similarity 100.0%; Pred. No. 1.8e-217; Mismatches 0; Indels 0; Gaps 0;

Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MCSRVPLLLPLLLALGPGVGCSPGCCSQPQTVCCTARQCTTVPDRVDPDTGLVYF 60

Db 1 MCSRVPLLLPLLLALGPGVGCSPGCCSQPQTVCCTARQCTTVPDRVDPDTGLVYF 60

QY 61 ENGITMDASSFAGLQGLDLSQNIASRLPRLLLDLSHNSLLALEPGILDPTANVE 120

Db 61 ENGITMDASSFAGLQGLDLSQNIASRLPRLLLDLSHNSLLALEPGILDPTANVE 120

QY 121 ALRLAGLQQLDEGLFSRLRNHLHDVSDNQLERVPVIRGLRGLTRLRAGNTRIAQL 180

Db 121 ALRLAGLQQLDEGLFSRLRNHLHDVSDNQLERVPVIRGLRGLTRLRAGNTRIAQL 180

QY 181 RREDIAGLAALQELDVSNLSLQALPGDLSGLPPLRLLLAAARNPNCVCLSWFGFWVRE 240

Db 181 RREDIAGLAALQELDVSNLSLQALPGDLSGLPPLRLLLAAARNPNCVCLSWFGFWVRE 240

QY 241 SHVTLASPEETRCHFPKKNAGRLLELDYADFGCPATTTTATVPTTRPVVREPTALSSSL 300


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Db 241 SHVTLASPEETRECHFFPNKAGRLLELDYADFGCPATTTTATVTTRVREPTALSSSL 300
Qy 301 APTWLSPTAPATEAPSPSTAPPTVGPVPPQDCCPPSTCLNGGTCGLGTRHHLACLCPG 360
Db 301 APTWLSPTAPATEAPSPSTAPPTVGPVPPQDCCPPSTCLNGGTCGLGTRHHLACLCPG 360
Qy 361 FTGLYCESQMGQGRTPSPPTVTPRPSRLTLGIEPVSPSTLRVGLQRYLOGSSVOLBSLR 420
Db 361 FTGLYCESQMGQGRTPSPPTVTPRPSRLTLGIEPVSPSTLRVGLQRYLOGSSVOLBSLR 420
Qy 421 LTYRNLSPDKRLVTLRLPASLAETVTLQRLPNATYSVCVMPLGPRVPEGEZACGEAHT 480
Db 421 LTYRNLSPDKRLVTLRLPASLAETVTLQRLPNATYSVCVMPLGPRVPEGEZACGEAHT 480
Qy 481 PPAVHSHNAPVTQAREGNLPLLIAPALAAVLAALAAVGAAYCVRRGRAMAAAAQDKGV 540
Db 481 PPAVHSHNAPVTQAREGNLPLLIAPALAAVLAALAAVGAAYCVRRGRAMAAAAQDKGV 540
Qy 541 GPGAGPLEGVKVPLEPGPKATGEGGALPSGSECEVPLMGFPGLQSPHLHAKPYI 598
Db 541 GPGAGPLEGVKVPLEPGPKATGEGGALPSGSECEVPLMGFPGLQSPHLHAKPYI 598

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RESULT 2

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US-09-944-457-69
; Sequence 69, Application US/09944457
; Patent No. 6734288
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrata, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944, 457
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866, 028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067, 411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069, 334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069, 335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069, 278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069, 425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069, 696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069, 694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069, 702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069, 870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069, 873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068, 017

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; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070, 440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074, 086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074, 092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075, 945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112, 850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113, 296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146, 222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216, 021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218, 517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254, 311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. 6734288ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. 6734288ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 69
; LENGTH: 598
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-457-69

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Query Match 100.0%; Score 3135; DB 4; Length 598;
Best Local Similarity 100.0%; Pred. No. 1.8e-217;
Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MCSRVPLLLPLLLLLALGPGVQGCPCSCQSQPOTVFCTARQGTTPRDPVPPDTVGLYVF 60
Db 1 MCSRVPLLLPLLLLLALGPGVQGCPCSCQSQPOTVFCTARQGTTPRDPVPPDTVGLYVF 60
Qy 61 ENGITMLDASSFAGLPGLQLLDLSQNIASRLPRLLLDLSHNSLLALEPGILDVANVE 120
Db 61 ENGITMLDASSFAGLPGLQLLDLSQNIASRLPRLLLDLSHNSLLALEPGILDVANVE 120
Qy 121 ALRLAGLQQLQDGLFSLRLNLHDLVDVSNQLERVPVIRGLRGLRFLRLAGNTRIAQL 180

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Db 121 ALRLAGLQQLDEGLFSRLNLDLDVSDNQLRVPVIRGLRGLRRLRAGNTRIAQL 180
QY 181 RPEDLAGLAALQELDVSNLSQALPGDLGSLGFLPRLLRLLAAARNPFCVPLSWFGPWRE 240
Db 181 RPEDLAGLAALQELDVSNLSQALPGDLGSLGFLPRLLRLLAAARNPFCVPLSWFGPWRE 240
QY 241 SHVTLASPETRCHFPKPNAGRLLLLDYADFGCPATTTATVTRPVVRPPTALSSSL 300
Db 241 SHVTLASPETRCHFPKPNAGRLLLLDYADFGCPATTTATVTRPVVRPPTALSSSL 300
QY 301 APTWLSPTAPATEAPSPPTAPPTVGPVPODCPSTCLNGTCHLGRHHLACLCPEG 360
Db 301 APTWLSPTAPATEAPSPPTAPPTVGPVPODCPSTCLNGTCHLGRHHLACLCPEG 360
QY 361 FTGLCYESQMGQGTREPTVTRPPRPSLTGLTEPVSPSTSLRVLQRYLQSSVQLRSRL 420
Db 361 FTGLCYESQMGQGTREPTVTRPPRPSLTGLTEPVSPSTSLRVLQRYLQSSVQLRSRL 420
QY 421 LTYRNLGDPDKRLVTLRLPASLAETVTLQLRPNATYSVCMPLGPRVPEGEACEAHT 480
Db 421 LTYRNLGDPDKRLVTLRLPASLAETVTLQLRPNATYSVCMPLGPRVPEGEACEAHT 480
QY 481 PPAVSHNHPVTOAREGNLPLLIAPALAAVLAALAAVGAAYCVRRGRAMAAADKGOV 540
Db 481 PPAVSHNHPVTOAREGNLPLLIAPALAAVLAALAAVGAAYCVRRGRAMAAADKGOV 540
QY 541 GFGAGPLEGKVLPLPCKPTEGGEALPGSGSECEVPLMGFPGLQSLPHAKPYI 598
Db 541 GFGAGPLEGKVLPLPCKPTEGGEALPGSGSECEVPLMGFPGLQSLPHAKPYI 598

RESULT 3
US-09-063-950-2
; Sequence 2, Application US/09063950C
; Patent No. 6225085
; GENERAL INFORMATION:
; APPLICANT: Holtzman, Douglas A.
; TITLE OF INVENTION: NOVEL LRSG PROTEIN AND NUCLEIC ACID MOLECULES AND USES
; FILE REFERENCE: THEREFOR
; CURRENT APPLICATION NUMBER: US/09/063,950C
; PRIOR FILING DATE: 1998-04-21
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 673
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-063-950-2

Query Match 98.4%; Score 3083.5; DB 3; Length 673;
Best Local Similarity 88.7%; Pred. No. 1.1e-213;
Matches 597; Conservative 0; Mismatches 1; Indels 75; Gaps 1;
QY 1 MCSRVPLLLPLLLALGFGVQCGPCSCQSQPTVCTARQTTVPRDVPDVTGLYVF 60
Db 1 MCSRVPLLLPLLLALGFGVQCGPCSCQSQPTVCTARQTTVPRDVPDVTGLYVF 60
QY 61 ENGITMLDASSFAGLPGQLLDLSQNOIAS----- 90
Db 61 ENGITMLDASSFAGLPGQLLDLSQNOIAS----- 90
QY 91 ----- 105
Db 121 RGLRLRLRYLGNKRIHQAFDTLDRLELKLQDNELRALPPRLRLLLDLSHNS 180
QY 106 LLALEPGILDANVEALRLAGLGLQQLDEGLFSRLNLDLDVSDNQLRVPVIRGLRG 165
Db 181 LLALEPGILDANVEALRLAGLGLQQLDEGLFSRLNLDLDVSDNQLRVPVIRGLRG 240
QY 166 LTRLRAGNTRIAQLRPEDLAGLAALQELDVSNLSQALPGDLGSLGFLPRLLRLLAAARNP 225

Db 241 LTRLRAGNTRIAQLRPEDLAGLAALQELDVSNLSQALPGDLGSLGFLPRLLRLLAAARNP 300
QY 226 NCVCPLSWFGPWVRESHVTLASPEETRCHFPKPNAGRLLLLDYADFGCPATTTATVPT 285
Db 301 NCVCPLSWFGPWVRESHVTLASPEETRCHFPKPNAGRLLLLDYADFGCPATTTATVPT 360
QY 286 TRPVVREPTALSSSLAPTWSLTAPATEAPSPPTAPPTVGPVPODCPSTCLNGTCH 345
Db 361 TRPVVREPTALSSSLAPTWSLTAPATEAPSPPTAPPTVGPVPODCPSTCLNGTCH 420
QY 346 HLGRHHLACLCPEGFTGLCYESQMGQGTREPTVTRPPRPSLTGLTEPVSPSTSLRVL 405
Db 421 HLGRHHLACLCPEGFTGLCYESQMGQGTREPTVTRPPRPSLTGLTEPVSPSTSLRVL 480
QY 406 QRYLGSSVQLRSRLTYRNLGDPDKRLVTLRLPASLAETVTLQLRPNATYSVCMPLGP 465
Db 481 QRYLGSSVQLRSRLTYRNLGDPDKRLVTLRLPASLAETVTLQLRPNATYSVCMPLGP 540
QY 466 GRVPEGEACEAHTPPAVSHNHPVTOAREGNLPLLIAPALAAVLAALAAVGAAYCVR 525
Db 541 GRVPEGEACEAHTPPAVSHNHPVTOAREGNLPLLIAPALAAVLAALAAVGAAYCVR 600
QY 526 RGRAMAAADKGOVPGAGPLEGKVLPLPCKPTEGGEALPGSGSECEVPLMGFP 585
Db 601 RGRAMAAADKGOVPGAGPLEGKVLPLPCKPTEGGEALPGSGSECEVPLMGFP 660
QY 586 PGLQSLPHAKPYI 598
Db 661 PGLQSLPHAKPYI 673

RESULT 4
US-09-520-781-10
; Sequence 10, Application US/09520781
; Patent No. 6689866
; GENERAL INFORMATION:
; APPLICANT: Shimkets, Richard A.
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES AND PROTEINS ENCODED THEREBY
; FILE REFERENCE: 15366-540 No. 6689866el Polynucleotides
; CURRENT APPLICATION NUMBER: US/09/520,781
; CURRENT FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: USSN 60/123,667
; PRIOR FILING DATE: 1999-03-09
; NUMBER OF SEQ ID NOS: 81
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 653
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-520-781-10

Query Match 10.7%; Score 337; DB 4; Length 653;
Best Local Similarity 23.6%; Pred. No. 4.1e-16;
Matches 159; Conservative 77; Mismatches 231; Indels 206; Gaps 25;
QY 7 LLLPLLLL-----LALGFGVQCGPCSCQSQPTVCTARQTTVPRDVPD 53
Db 17 ILLPFVYLTAQWILCAAIAAASAGPQNCPSVCSCNQFSKVCTRRGLSEVPQGPSN 76
QY 54 TVGLVVFENGITMLDASSFAGLPGQLLDLSQNOIASL-----LPRLLLDLSHNSLL 107
Db 77 TRYLMENNIIQIADTFRHLHLLEVQLGNSIRQIEVGAFNGLASLTLEFDNFLT 136
QY 108 ALEPGILDAN-----VEALRLAGLG-----LQQLDEGLFSRLR 141
Db 137 VIPSGAFEYLSKRLRLNRRNPIESIPYAFNRVPSLMRLDGLCKKLYISEGAFEGFL 196
QY 142 N-----LHDLVDSDNQLRVPVIRGLRGLRRLRAGNTRIA 178
Db 197 NLKYLNLGNCKNIKDWPNLTPLVGLBELEMSGNHFFPEIRPGSPHGLSSLKAKLWV-NSQVS 255
QY 179 QURPEDLAGLAALQELDVSNLSQALPGDLGSLGFLPRLLRLLAA-----RNPFCVCLSWFG 235

Db 256 LIERNAPDGLASLVELNLAHNNLSLPHD---LFTPLRYLVELHLHHPNWCDCDILWL 312
Qy 236 PWVRESHVTLASPEETRCHFPKPNAGRLLLELDVADFCGPATTTATVPTTRPVVREPTA 295
Db 313 WMLRE-YIPTNSTCCGRCHAPMHRGRYLVEVDQASFOCSA-----PFIMDAPRLNI 364
Qy 296 LSSSLAP-----TWLSPTAPA--TEAPSPSTAPPTVGPVQP-----QDCPPSTC 339
Db 365 SEGRMAELKCRTPPMSSVKWLLPNGTVLSHASRHPRIVLNDGTILNFHSHVLLSDTGVYTC 424
Qy 340 -----LNGGTCCHLGRHHLACLCEPGFTGLYCESOMGQGTSPPTVTP-- 383
Db 425 MGTNVAGNSASAYLNGSTAEINTSY-----SFTTGTGETTEISPEDTRKY 473
Qy 384 RPPRLTLTGIEPVSPTSRLRVGLQ 406
Db 474 KVPPTTSTGYQPAYTTTTLVLIQ 496
Qy 444 EYTVTLRPNATYSCVMPGLGRVPEGEACGEAHTPPAVHSHAPVTOAREGNPLLI 503
Db 506 -----VPAID-----TDRKQTSLDEVMTTK-----II 529
Qy 504 APALAAVLLAALAAVGAAYCVR-----GRAMAAAQDKQVGGAGPLEGVKVPLEGP 560
Db 530 ICGFVAVTLAAAMLIVFYKLKRKHQRSTVTAR-----TVELIQVD-EDIP 576
Qy 561 KATEGGEGALPSG 573
Db 577 AATSAATAAPSG 589
RESULT 5
US-09-520-781-12
; Sequence 12, Application US/09520781
; Patent No. 6689866
; GENERAL INFORMATION:
; APPLICANT: Shinkets, Richard A.
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES AND PROTEINS ENCODED THEREBY
; FILE REFERENCE: 15966-540 No. 6689866el Polynucleotides
; CURRENT APPLICATION NUMBER: US/09/520,781
; CURRENT FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: USSN 60/123,667
; PRIOR FILING DATE: 1999-03-09
; NUMBER OF SEQ ID NOS: 81
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 590
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-520-781-12

Query Match 10.6%; Score 333; DB 4; Length 590;
Best Local Similarity 25.8%; Pred. No. 7e-16;
Matches 130; Conservative 60; Mismatches 187; Indels 126; Gaps 18;
Qy 7 LLLPLLLL-----LALGPGVCGSCGCS-OPQTVCTARQGTTPRDVPPD 53
Db 17 ILLPFVYLTAQWILCAIAAASAGPQNCPSVCSNQSFSKWCTRRGLSEVPQGPSN 76
Qy 54 TVGLVVFENGITMLDASSFAGLPGLQLDLSONQIASLR-----LPRLLDLSHNLL 107
Db 77 TRYLMNENNTQMTQADTFRHLHLHLEVLQLGNSIRQIEVGFNGLASLSTLEIFDNWLT 136
Qy 108 ALEPGILDITAN-----VEALRLAGLG-----LQQLDEGLFSRLR 141
Db 137 VIPSGAFVYLSKRLRLRNPIESIPSYAFNRVPSLRMLDLGELKLEYISEGAFGLF 196
Qy 142 N-----LHLDVSDNQLERV-PPVIRGLRGLTRLRAGNTRIA 178
Db 197 NLKYLNLGMCNIKOMPNTPLVGLLEEMSGNHFPFIRPGSFHGLSSLKLLWVM-NSQVS 255
Qy 179 OLRPEDLAGLAALQELDVSNLSLQALPGDLGSLFPRLRLAAA-----RNPFCVCPFLSWF 235

Db 256 LIERNAPDGLASLVELNLAHNNLSLPHD---LFTPLRYLVELHLHHPNWCDCDILWL 312
Qy 236 PWVRESHVTLASPEETRCHFPKPNAGRLLLELDVADFCGPATTTATVPTTRPVVREPTA 295
Db 313 WMLRE-YIPTNSTCCGRCHAPMHRGRYLVEVDQASFOCSA-----PFIMDAPRLNI 364
Qy 296 LSSSLAP-----TWLSPTAPA--TEAPSPSTAPPTVGPVQP-----QDCPPSTC 339
Db 365 SEGRMAELKCRTPPMSSVKWLLPNGTVLSHASRHPRIVLNDGTILNFHSHVLLSDTGVYTC 424
Qy 340 -----LNGGTCCHLGRHHLACLCEPGFTGLYCESOMGQGTSPPTVTP-- 383
Db 425 MGTNVAGNSASAYLNGSTAEINTSY-----SFTTGTGETTEISPEDTRKY 473
Qy 384 RPPRLTLTGIEPVSPTSRLRVGLQ 406
Db 474 KVPPTTSTGYQPAYTTTTLVLIQ 496
RESULT 6
US-09-063-950-5
; Sequence 5, Application US/09063950C
; Patent No. 6225085
; GENERAL INFORMATION:
; APPLICANT: Holtzman, Douglas A.
; TITLE OF INVENTION: NOVEL LRSG PROTEIN AND NUCLEIC ACID MOLECULES AND USES
; FILE REFERENCE: MEI-019
; CURRENT APPLICATION NUMBER: US/09/063,950C
; CURRENT FILING DATE: 1998-04-21
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 605
; TYPE: PRT
; ORGANISM: Papio hamadryas
US-09-063-950-5
Query Match 10.3%; Score 322; DB 3; Length 605;
Best Local Similarity 36.2%; Pred. No. 4.5e-15;
Matches 100; Conservative 39; Mismatches 97; Indels 40; Gaps 11;
Qy 7 LLLPLLLL--LALG-----PGVQG-----CPSGCGCSQPQ-----TVFCTARQGT 45
Db 8 LALALLLSVALGPRSLGABPGTPGEAGPACATCACSYDEVNELSVFCSRNLTR 67
Qy 46 VPRDVPDPTVGLYVFENGITMLDASSFAGLPGLQLDLSONQIASLRPLRL----- 98
Db 68 LPDGIPTGTQALMLDSNNLSIPPAAFRNLSSLAFLNLQGGQLGSLB-PQALLGLENLCH 126
Qy 99 LDLSHNSLLALEPGILDITANVEALRLAGLG---LQQLDEGLFSRLRNLHLDVSDNQLER 155
Db 127 LHLERNQLRSLAVGTF--AYTPALALGLSNNRSLRLEDGLFEGLGNLDNLGNWSLAV 184
Qy 156 VP-PVIRGLRGLTRLAGNTRIAQLRPEDLAGLAALQELDVSNLSLQALPGDLGSLFPR 214
Db 185 LPDAAFGLGGLRELVLGN-RLAYLQALFSGLAERELDLSRNALRAIKANVFAQLPR 243
Qy 215 LRLAAARNPFCVPLSWFG-----PWVRESHVTIA 246
Db 244 LQKLYLDRNLIAAVAPGAFGLKALRWLDLSHNRVA 279

RESULT 7
US-09-907-794A-28
; Sequence 28, Application US/09907794A
; Patent No. 6635468
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/907,794A
CURRENT FILING DATE: 2001-07-17
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 28
LENGTH: 660
TYPE: PRT
ORGANISM: Homo sapiens
US-09-907-794A-28
Query Match 10.2%; Score 320; DB 4; Length 660;
Best Local Similarity 22.4%; Pred. No. 7e-15;
Matches 140; Conservative 87; Mismatches 216; Indels 182; Gaps 23;
13 LLLALGPVGQ-----GCPSCGCSQQTVCCTARQGTTPRDPDPDTGVLVYF-----60
20 LLIISGLYSQVSKLLACPVCRCDR-NFYVCNRSITSPVLGIPGVTVLYLHNQINNA 78

61 QY -----ENGITWLDASSFAGLPLQLL 81
79 GFPAELHNVSHTVYLYGNQLDEFPMLPKNVRVLHLQENNIQTISRAALQALLLEL 138
82 DLSQNIASRLP-----RLLLDLSHNSLLALEPGI---LOTANVEARLA---GL 127
139 HLDNDSISTVGVEDGAFREASLKLFLSKHLSVPVGLPVDLQELRLVDENRIVISDM 198
128 GLQQLD-----EGFSLRLNHLHDLDVSDNQLERVPVPIRGLRLRL 169
199 AFQNLTSLERLIVDGNLLTNKGIAGSTFSLTKLKEFSIVRNSLSHPPDLPGTH-LIRL 257
170 RIAGNTRIAQLRPEDLAGLALQELDVNSLSQALPGDLSGLFPRLRLAAARNPNCVC 229
258 YLQDN-QINHIPLTAFSNLRKLERLDISNNQLRMLTQGVFDNLSNLKQLTARNNPFCD 316
230 PLSWFGPVVRESHVTLASPEETRCHFPKKNAGRLLELDYADFGCPATTATVPTTRV 289
317 SIKWTEWLKYPSSL-NVRGFMCOGPEQVRGMARELNMLLSCP--TTTPGLPLFTP- 372
290 VREPTALSSSLAPTWLSPTATEAPSPSTAPPTVGPVPOQDCPPSTCLNGTCHLGT 349
373 -----APST---ASPTTPTLS-IPNP-----S 392
350 RHHLACLPCEGTGLYCESQMGQGTTPPTP-----VTTPRPSRLTIGIEP 395
393 RSY-----TPPTTTSKLTIPDWDGGRVTPPISERIQLSIHF 431
396 VSPTSRLVQLORYLOGSSVQLRSRLTYRNLSPDKRLVTLRLPASLAHY-IVTQLRPA 454
432 VNDTSIQVSWLSLFTVMAYKLTVMKMGHSLVGG-----IVQERIVSGEKHLSLVNLEPKS 487
455 TYSVCVMPGLGCRVPEGEA-CGEAHTPPA-----VHSNHAPVTQAREGNLPLLIAPA 506
488 TYRICLVPLDAPNVEAVEDTICSEATTHASYLNNGSNTASSHEQTTSHMGS-PFLIAGL 546
507 LAAVLLAALAAVGAAYC---VRRGR 528
547 IGGAVIFVLVLLSVFCVWHMKGR 571

RESULT 8
US-09-905-125A-28
Sequence 28, Application US/09905125A
Patent No. 6664376
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

```

; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905/125A
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 28
; LENGTH: 660
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-905-125A-28

Query Match 10.2%; Score 320; DB 4; Length 660;
Best Local Similarity 22.4%; Pred. No. 7e-15;
Matches 140; Conservative 87; Mismatches 216; Indels 182; Gaps 23;

Qy 13 LLLALGPVQ-----GCPSCGCCSQPQTVCFTARQGTTPRDPVDPDTVGLVVF----- 60
Db 20 LIISGLYSQVSKLIACPSVCRDR-NFVYCNSRLTSVPLGIPGEGVTVLVYLNHNQINNA 78
Qy 61 -----ENGITMLDASSFAGLPGLQLL 81
Db 79 GFPAELHNQSVHTVYLYGNQDLEFFMMLPKNRVRLHLOENNIQTIISRAALQALLKLEEL 138
Qy 82 DLSONQIASRLP-----RLLLDLSHNSLLALEPGI---LDTANVEALRLA---GL 127
Db 139 HLDNDSISTVGVEDGAPREAIISLKLFLSKHNSVPGVLPVDLQELRVDSNRIAVISDM 198
Qy 128 GLQQLD-----EGLFSRLRNHLHDVDSONQLERVPVIRGRLGRL 169
Db 199 AFQNLTSLERLIVDGNLLNTKNGIAEGTFSHLTKLKEFSIVRNSLSHPPDPLFGTH-LIRL 257
Qy 170 RLAGNTRIAQRLPEDLAGLAALQELDVSNLSIQALPGDLSGLFPRRLRLAARPNPVCVC 229
Db 258 YLQDN-QINH1PLTAFSNLRLERLIDSNQRLMTQGVFDNLNLKLTARNPNPWCDC 316
Qy 230 PLSWFGPWVRESHVTLASPEETRCHFFPKNAGRLLLELDYADFGCPATTTTATVPTTRPV 289
Db 317 SIKWTEWLKYPSSL-NVRFGMCQPGQVRGMVRELNNLLSCP--TTTPGLPLFTF- 372
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Qy 290 VREPTALSSSLAPTWLSPTAPATEAPSPSTAPPTVGVPOQDPCPSTCLNGGTCHLGT 349
Db 373 -----APST---ASPTQPPTLS-IPNP-----S 392
Qy 350 RHLACLCLPEGFTGLYCESQMGQCTRPSPTP-----VTPRPPRSLTLTGTEP 395
Db 393 RSY-----TPPTTYSKLTPTIPDWDGRERVTPPISERTQLSIHF 431
Qy 396 VSPTSLRVGLQRYLQSSVQLRSLRSLRYRLNSGPKRLVTLRLPASLAAY-TVTQLRPNA 454
Db 432 VNDTSIQVSWLSLFTVMAYKLTVMKMGHSLVGG-----IVQERIVSGEKQHLSLVNLERS 487
Qy 455 TYSVCVMPLGPGRVPEGEAA-CGEAHTPPA-----VHSNHAPVTQAREGNLPLLIAPA 506
Db 488 TYRCLVPLDAFNRYRAVEDTICSEATTHASLYNNGSNTASSHEQTTSMSGS-PFLLAGL 546
Qy 507 LAAVLLAALAAVGAAYC---VRRGR 528
Db 547 IGGNAVIFVLVLLSVFCVCHMKGR 571

RESULT 9
US-09-902-775A-28
; Sequence 28, Application US/09902775A
; Patent No. 6686451
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Deenoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,775A
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
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; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 28
; LENGTH: 660
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-902-775A-28

Query Match 10.2%; Score 320; DB 4; Length 660;
Best Local Similarity 22.4%; Pred. No. 7e-15;
Matches 140; Conservative 87; Mismatches 216; Indels 182; Gaps 23;
QY 13 LLLALPGVQ-----GCPGSCCQSQPTVFCARQCTTTPRDVPPPTVGLVYF----- 60
Db 20 LIISLGLYSQVSKLIACPSVCRDR-NFYCNERSUTSVPLGIPEGVTVLYLHNNQINNA 78
QY 61 -----ENGITMLDASSFAGLPGQLQL 81
Db 79 GPFAELHNVQSVHTVLYGNQLDDEFPNLPKNVRLHQLQENNIQTTSRAALQALLKLEL 138
QY 82 DLSQNIASLRIP-----RLLLDLSHNSLLALEPGI-----LDTANVEALRLA---GL 127
Db 139 HLDNDSISTGVGVEDGAFREAIKLLFLSKNHLSSVPGVPLVDQLQELRVNDENRIIVISDM 198
QY 128 GLQQLD-----EGLFSLRLMLDLVDSDNOLERVVPVIRGLRLGLRL 169
Db 199 AFQNLTSRLERLIVDGNLLTNKGIAETFSHLTKLKEFSIVRNSLSHPDPLPGTH-LIRL 257
QY 170 RLAGNTRIAQLRPEDLAGLAALQELDVSNLSLQALPGDLGSLFPRLRLILAAARNPNCVC 229
Db 258 YLQDN-QINHPIPTAFSNLRKLERLDISNNQLEMLTQGVFDNLSNLKQLTARNNPFCD 316
QY 230 PLSWFGPWVRESHTVLASPEETRCHPPPKNAGRLLELDYADPGCPATTTTATVPTTRV 289
Db 317 SIKWVTEWLKYPSSL-NVRGFMCGQPEQVRGMVAVRELANNLLSCP--TTTGLPLFTP- 372
QY 290 VREPTALSSLAFTWLSPTAPATEARSPSPSTAPTPGVPOQDCCPSTCLNGTCHLGT 349
Db 373 -----APST---ASPTTQPTLS-IPNP-----S 392
QY 350 RHHLACLCEGFTGLYCQMGQGTSPSTP-----VTPRPRSLTIGIEP 395
Db 393 RSY-----TPPTTTSKLPIDPDWGRVTPPISERIQLSIIF 431
QY 396 VSPTSRLVGLQRYLOGSSVQLRSRLTYRNLSPDKRLVTLRLPALSABY-TVTLQRLPNA 454
Db 432 VNDTSIQVSWLSLFTVMAYKLTWVKMGHSLVG-----IVQERIVSGEKQHLVSNLEPRS 487
QY 455 TYSVCWNPGLGPRVPGGEA-CQEAHTPPA-----VHSNHAPVTOAREGNLPLLIAPA 506
Db 488 TYRILVPLDAFNRYAVEDTICSEATTHASLYNNGSNNTASSHQTTTSHMGS-PFLIAGL 546
QY 507 LAAVLLAALAAVGAAYC---VREGR 528
Db 547 IGGAVIFVLVLLSVFCWFMHKKGR 571

RESULT 10
US-09-906-700-28
; Sequence 28, Application US/09906700
; Patent No. 6723535
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/906,700
; CURRENT FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 28
; LENGTH: 660
; TYPE: PRT

ORGANISM: Homo sapiens
US-09-906-700-28

Query Match 10.2%; Score 320; DB 4; Length 660;
Best Local Similarity 22.4%; Pred. No. 7e-15;
Matches 140; Conservative 87; Mismatches 216; Indels 182; Gaps 23;

Qy 13 LLLALPGVQ-----GCPGCGCQSQPQTVFCTARQGTTPRDPVPPDTVGLYVF----- 60
Db 20 LIISGLYSQVSKLLACPSVCRCDR-NFVYCNERSLTSVPLGIGEGVTVLVHNNQINNA 78
Qy 61 -----ENGITWLDASSPAGLPGLQLL 81
Db 79 GFPAELHNVSQVHTVLYGNQLDPEFMNLPKNVRVLHLQENNIQTIISRAALAKLLEEL 138
Qy 82 DLSQNIASRLP-----RLLLDLSHNSLLALEPGI---LDTANVEALRLA---GL 127
Db 139 HLDNDSISTVGVEDGAPREAIISKLFLSKNHLSSVPVGLPVDLQELRVNDRNIAVISDM 198
Qy 128 GLQQLD-----EGLFSRLRNHLHDLDVSDNQLERVPVIRGLRGLTRL 169
Db 199 AFONLTSRLERLVDGNLLTNKGIAEGTSHLTKLKEFSIVRNSLSLHPPDPLPGTH-LIRL 257
Qy 170 RLAGNTRIAQLRPEDLAGLAALQELDVNSLSQALPGDLGLFPRRLRLAAARNPENCVC 229
Db 258 YLDN-QINHIPLTAFSNLRLKRLERLDISNNQRLMLTQGVFNLSNKLQLTARNPWFCD 316
Qy 230 PLSMFGPVRVSHVTLASPEETRCHFPKPNAGRLLELDYADFGCPATTTTATVPTTRPV 289
Db 317 SIKWTEWLKVIPTSL-NVRGFMCGQGVQVGMVRELNNLLSCP--TTTPGLPLFTP- 372
Qy 290 VREPTALSSSLAPTWLSTAPATEAPSPSTAPPTVGVPOQDCPPSTCLNGTCHLGT 349
Db 373 -----APST---ASPTTQPTLS-IPNP-----S 392
Qy 350 RHILACLCEGFTGLYCESQMGQTRPSPTP-----VTPRPPRSLTGLTEP 395
Db 393 RSY-----TPPTTTSKLTPIPDWGRERVTPISERIQLSIHF 431
Qy 396 VSPTSRLVGLQRYLQGSVQLRSRLTYRNLSGDPDKRLVTLRLPASLAAY-TVTQLRPNA 454
Db 432 VNDTSIQVSWLSLFTVMAYKLTVMKMGHSLVG-----IVQERIVSGEKHLSLVNLEPRS 487
Qy 455 TVSVCMPLGCRVPEGEA-CGEANTPPA-----VHSNHPVTOREGNPLLIAPA 506
Db 488 TYRICLVLDPFNYRAVEDTTCSEATTTHASYLNNGSNNTASSHEQTTSMSG-S-PFLLAGL 546
Qy 507 LAAVLLAALAAVGAAYC---VRRGR 528
Db 547 IGGAVIFVLVLLSVFCWHMKKGR 571

RESULT 11
US-09-903-603A-28
Sequence 28, Application US/09903603A
Patent No. 6767995
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.

APPLICANT: Kijavlin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: GNE.1618P2C12
CURRENT APPLICATION NUMBER: US/09/903,603A
CURRENT FILING DATE: 2001-07-11
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 28
LENGTH: 660
TYPE: PRT
ORGANISM: Homo sapiens
US-09-903-603A-28

Query Match 10.2%; Score 320; DB 4; Length 660;
Best Local Similarity 22.4%; Pred. No. 7e-15;
Matches 140; Conservative 87; Mismatches 216; Indels 182; Gaps 23;

Qy 13 LLLALPGVQ-----GCPGCGCQSQPQTVFCTARQGTTPRDPVPPDTVGLYVF----- 60
Db 20 LIISGLYSQVSKLLACPSVCRCDR-NFVYCNERSLTSVPLGIGEGVTVLVHNNQINNA 78
Qy 61 -----ENGITWLDASSPAGLPGLQLL 81
Db 79 GFPAELHNVSQVHTVLYGNQLDPEFMNLPKNVRVLHLQENNIQTIISRAALAKLLEEL 138
Qy 82 DLSQNIASRLP-----RLLLDLSHNSLLALEPGI---LDTANVEALRLA---GL 127
Db 139 HLDNDSISTVGVEDGAPREAIISKLFLSKNHLSSVPVGLPVDLQELRVNDRNIAVISDM 198
Qy 128 GLQQLD-----EGLFSRLRNHLHDLDVSDNQLERVPVIRGLRGLTRL 169

Db 199 AFQNLTSLERLIVDGNLLTNKGIAEGTFSHLTKLKEFSIVRNSLSHPPDPLGPTH-LIRL 257
QY 170 RIAGNTRIAQLRPEDLAGLAALQELDVSNLSQALPGLSLGFPRLRLLLAAARNPNCVC 229
Db 258 YLQDN-QINHPLTAFSNLRKLERLDISNNQLRMLTQGVFDNLSNLKQLTARNNPFCD 316
QY 230 PLSWFGPWVRESHVTLASPEETRCHFPKGNAGRLLELDYADFGCPATTTATVPTTRV 289
Db 317 SIKWTEWLKUIPSSL-NVRGFMCGPEQVRGMARELNMLLSCP--TTTGLPLFTP- 372
QY 290 VREPTALSSSLAPTWSLPTAPATEAPSPSTAPPTVGPVQPCDPPCLNGGTCHLGT 349
Db 373 -----APST---ASPTTQPTLS-IPNP-----S 392
QY 350 RHHACLCEPGTGLYCESQMGQTRPSPTP-----VTPRPPSLTGIEP 395
Db 393 RSY-----TPPTTTSKLTPIPDWDCGRVTPPISERIQLSIH 431
QY 396 VSPTSRLVGLQRYLOGSSVOLRSRLTYRNLGPKRRLVTLRLPASLAAY-TVTQLRPA 454
Db 432 VNDTSIQVSWLSLFTVMAYKLTWVRMGHSLVGG-----IVQERIVSGEKQHLVNLPR 487
QY 455 TYSVCVMPGRCRVPGEBA-CGEAHTPPA-----VHSNHAPTVQAREGNLPLLIAPA 506
Db 488 TYRILCVLFDNFYRAVEDTISEATHASYLNGSNTASSHEQTTSHMGS-PFLLAGL 546
QY 507 LAAVLLAALAAVGAAYC---VRRGR 528
Db 547 IGGAVIFVLVLLSVFCWHMKGR 571

RESULT 12

US-09-904-920A-28
; Sequence 28, Application US/09904920A
; Patent No. 6806352

GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,920A
; CURRENT FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222

; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 28
; LENGTH: 660
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-904-920A-28

Query Match 10.2%; Score 320; DB 4; Length 660;
Best Local Similarity 22.4%; Pred. No. 7e-15;

Matches 140; Conservative 87; Mismatches 216; Indels 182; Gaps 23;

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QY 61 -----ENGITMLDASSFAGLPGQLJL 81
Db 79 GPPAELHNVQSVHTVLYGNQIDPEFPMNLKPNVRVLHLQENNIQITISRAALQALLKEEL 138
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Db 139 HLDNNSISTVGVEDGAFREAIKSLKLLFLSKNHLSSVPVGLPVDLOELRVDENRIVISDM 198
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QY 170 RIAGNTRIAQLRPEDLAGLAALQELDVSNLSQALPGLSLGFPRLRLLLAAARNPNCVC 229
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Db 317 SIKWTEWLKUIPSSL-NVRGFMCGPEQVRGMARELNMLLSCP--TTTGLPLFTP- 372
QY 290 VREPTALSSSLAPTWSLPTAPATEAPSPSTAPPTVGPVQPCDPPCLNGGTCHLGT 349
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Db 393 RSY-----TPPTTTSKLTPIPDWDCGRVTPPISERIQLSIH 431
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Qy 455 TYSVCMPLGGRVPEGEA-CGEAHTPPA-----VHSNHAPVTOAREGNLPLLIAPA 506
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RESULT 13
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; Sequence 6843, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6843
; LENGTH: 660
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-6843

Query Match 10.2%; Score 320; DB 4; Length 660;
Best Local Similarity 22.4%; Pred. No. 7e-15;
Matches 140; Conservative 87; Mismatches 216; Indels 182; Gaps 23;
Qy 13 LLLALGPGVQ-----GCPSGQCQSQPTVFCTARQTTVPDRVPPDTVGLYVF----- 60
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Qy 61 -----ENGITWLDASSFAGLPGLOLL 81
Db GFPAPLHNQSVHTVLYYCNQNDPEPMNLPKNVRVLIHQENNIQITISRAALQALLKLEEL 138
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Db AFQNLTSLERLIVDGNLLNTKGIAGTSHLTKEFISIVNSLSLHPPDLPGTH-LIRL 257
Qy 170 RLGNTRIAQLRPEDLAGIALQELDVNSLSQALPGLSGLFPRLRLAARPNPFCVC 229
Db YLQDN-QINHPIPLTAFAFSLNRLKLERLDISNNQLRMLTQGVFONLSNLKQLTARNNPWFCD 316
Qy 230 PLSFPGMPVRESHTVLTASPEETCHFPKPNAGRLLELDYADFGCPATTTTATVPTTRPV 289
Db SIKWVTEWLKIPSSL-NVRGFMCGQGVQRMGMAVRELNMNLLSCP---TTTPGLPLFTP- 372
Qy 290 VREPTALSSSLAPTWSLSPATAPATEAPSPSTAPTPVGPVQPDCCPPSTCLNGGTCHLGT 349
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Qy 350 RHHLIACLCEFTGLYCSQMGQGRPSPTP-----VTPRPPRSITLGIETP 395
Db 393 RSY-----TPPTPTTSKLPITPDWDGREKRVTPPISERIQLSIFH 431
Qy 396 VSPTSLRVGLQRYLQSSVQLRSRLTYRNLSGPKRLVTLRLPASLAEY-TVTQLRENA 454

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Qy 455 TYSVCMPLGGRVPEGEA-CGEAHTPPA-----VHSNHAPVTOAREGNLPLLIAPA 506
Db TYRICLVPLDAFNRAVEDTTCSEATTHASVLYNNGSNNTASSHEQTTSMSGSPFLLAGL 546
Qy 507 LAAVLLAALAAGVGAAYC---VRRGR 528
Db IGGAVIFVLVLLSVFCWHMHKKGR 571

RESULT 14
US-09-909-064-28
; Sequence 28, Application US/09909064
; Patent No. 6818449
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnuyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas P.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; ACIDS
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/909,064
; CURRENT FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095


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; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 28
; LENGTH: 660
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-909-064-28

Query Match 10.2%; Score 320; DB 4; Length 660;
Best Local Similarity 22.4%; Pred. No. 7e-15;
Matches 140; Conservative 87; Mismatches 216; Indels 182; Gaps 23;

QY 13 LLLALGPGVQ-----GCPSCGCSQPTVFCTARQCTTVPDVPPTVGLYVF-----60
D 20 LIISLGLYSQVSKLLACPSVCRDR-NFYVCNERSLTSVPLGIPEGTVLYLHNNQINNA 78
QY 61 -----ENGITMLDASSFAGLPGQLL 81
D 79 GPFAELHNVQSVHTVLYNQDLDFPMNLPKNVRLVHLQENNIQTISRALAAQLKLEEL 138
QY 82 DLSQNIASLRP-----RLLLDLSHNSLLALEPGI---LDTANVEALRLA---GL 127
D 139 HLDNDSISTGVGDFAGFAEISKLFLSKNHLSSVPGVLPVDQLRVDENRIAVISDM 198
QY 128 GLQOLD-----EGLFSLRLNHLDVDNQLERVPPVIRGLRGLTL 169
D 199 AFQNLTSLERLIVDGNLLTNKGIAEGTFSHLTKLKEFSIVRNSLSHPDPDLPGTH-LIRL 257
QY 170 RLAGNTRIAQLRPEDLAGLAALQELQVSNLSLQALPGDLGSLFPRLRLAAARNPENCVC 229
D 258 YLQDN-QINHIPLTAFSNLRKLERLDISNNQLRMLTQGVFDNLSNLKQLTARNPWFDC 316
QY 230 PLSWFGPVRSHVTLASPEETRCHFPKPNAGRLLELDYADFPGCPATTTTATVPTTRPV 289
D 317 SIKWVTEWKYIPSSL-NVRGFWCQGEQVGRGMAVELNANLLSCP--ITTPGLPLFTP- 372
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QY 455 TVSVCMPLPGKVRPGEBA-CGEAHTPPA-----VHSNHAAPTQAREGNLPLIIAPA 506
D 488 TYRIVCLVPLDAENYRAVEDITCEATTHASYLNNGNSNTASSHBQTTSHMGS-PFLIAGL 546
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RESULT 15
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; Patent No. 6818746
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,381A
; CURRENT FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
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; PRIOR APPLICATION NUMBER: PCT/US99/20944
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; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 28
; LENGTH: 660
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-905-381A-28

Query Match 10.2%; Score 320; DB 4; Length 660;
Best Local Similarity 22.4%; Pred. No. 7e-15;
Matches 140; Conservative 87; Mismatches 216; Indels 182; Gaps 23;

QY 13 LLLALGPGVQ-----GCPSCGCSQPTVFCTARQCTTVPDVPPTVGLYVF-----60
D 20 LIISLGLYSQVSKLLACPSVCRDR-NFYVCNERSLTSVPLGIPEGTVLYLHNNQINNA 78
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Qy 61 -----ENGITMLDASSFAGLPGLQLL 81
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Qy 170 PLAGNTRIAQLRPEDLAGIALQELDVNSLSLOALPGDLSGLFPRLRLAARPNFNCVC 229
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Db 432 VNDTSIQVSWLSLFTVMAYKLTWVMGHSLVGG-----IVQERIVSGEKQHLSLVNLEPRS 487
Qy 455 TYSVCVMPLEPCRVPEGEA-CGEAHTPPA-----VHSNHAPVTOAREGNLPLLIAPA 506
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Job time : 69 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: May 12, 2005, 19:12:47 ; Search time 137 Seconds
(without alignments)
1458.124 Million cell updates/sec

Title: US-09-943-780-69

Perfect score: 3135

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Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1432185 seqs, 334051727 residues

Total number of hits satisfying chosen parameters: 1432185

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1500 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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5	3135	100.0	598	9	US-09-945-587-69
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7	3135	100.0	598	9	US-09-944-396-69
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21	3135	100.0	598	11	US-10-227-884-104
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23	3135	100.0	598	14	US-10-230-338-104
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36	3135	100.0	598	14	US-10-219-466-104
37	3135	100.0	598	14	US-10-219-479-104
38	3135	100.0	598	14	US-10-219-481-104
39	3135	100.0	598	14	US-10-230-260-104
40	3135	100.0	598	14	US-10-232-231-104
41	3135	100.0	598	14	US-10-216-165-104
42	3135	100.0	598	14	US-10-218-956-104
43	3135	100.0	598	14	US-10-219-478-104
44	3135	100.0	598	14	US-10-219-528-104
45	3135	100.0	598	14	US-10-227-880-104
46	3135	100.0	598	14	US-10-227-881-104
47	3135	100.0	598	14	US-10-227-882-104
48	3135	100.0	598	14	US-10-230-436-104
49	3135	100.0	598	14	US-10-232-233-104
50	3135	100.0	598	14	US-10-232-225-104
51	3135	100.0	598	14	US-10-232-227-104
52	3135	100.0	598	14	US-10-232-229-104
53	3135	100.0	598	14	US-10-232-234-104
54	3135	100.0	598	14	US-10-219-060-104
55	3135	100.0	598	14	US-10-216-162-104
56	3135	100.0	598	14	US-10-216-164-104
57	3135	100.0	598	14	US-10-216-167-104
58	3135	100.0	598	14	US-10-219-065-104
59	3135	100.0	598	14	US-10-219-071-104
60	3135	100.0	598	14	US-10-219-074-104
61	3135	100.0	598	14	US-10-219-077-104
62	3135	100.0	598	14	US-10-219-465-104
63	3135	100.0	598	14	US-10-219-469-104
64	3135	100.0	598	14	US-10-219-467-104
65	3135	100.0	598	14	US-10-219-471-104
66	3135	100.0	598	14	US-10-219-473-104
67	3135	100.0	598	14	US-10-219-476-104
68	3135	100.0	598	14	US-10-219-482-104
69	3135	100.0	598	14	US-10-227-876-104
70	3135	100.0	598	14	US-10-227-878-104
71	3135	100.0	598	14	US-10-229-974-104
72	3135	100.0	598	14	US-10-230-024-104
73	3135	100.0	598	14	US-10-230-113-104
74	3135	100.0	598	14	Sequence 69, Appl
75	3135	100.0	598	14	Sequence 69, Appl
76	3135	100.0	598	14	Sequence 69, Appl
77	3135	100.0	598	14	Sequence 69, Appl
78	3135	100.0	598	14	Sequence 69, Appl
79	3135	100.0	598	14	Sequence 69, Appl
80	3135	100.0	598	14	Sequence 69, Appl
81	3135	100.0	598	14	Sequence 69, Appl
82	3135	100.0	598	14	Sequence 69, Appl
83	3135	100.0	598	14	Sequence 69, Appl
84	3135	100.0	598	14	Sequence 69, Appl
85	3135	100.0	598	14	Sequence 69, Appl
86	3135	100.0	598	14	Sequence 69, Appl

87	3135	100.0	598	14	US-10-230-183-104	Sequence 104, App	160	3083.5	98.4	673	10	US-09-997-428-52	Sequence 52, Appl
88	3135	100.0	598	14	US-10-230-234-104	Sequence 104, App	161	3083.5	98.4	673	10	US-09-997-666-52	Sequence 52, Appl
89	3135	100.0	598	14	US-10-230-306-104	Sequence 104, App	162	3083.5	98.4	673	10	US-09-990-438-52	Sequence 52, Appl
90	3135	100.0	598	14	US-10-230-426-104	Sequence 104, App	163	3083.5	98.4	673	10	US-09-990-562-52	Sequence 52, Appl
91	3135	100.0	598	14	US-10-230-427-104	Sequence 104, App	164	3083.5	98.4	673	10	US-09-989-711-52	Sequence 52, Appl
92	3135	100.0	598	14	US-10-230-433-104	Sequence 104, App	165	3083.5	98.4	673	10	US-09-989-726-52	Sequence 52, Appl
93	3135	100.0	598	14	US-10-230-435-104	Sequence 104, App	166	3083.5	98.4	673	10	US-09-998-156-52	Sequence 52, Appl
94	3135	100.0	598	14	US-10-230-438-104	Sequence 104, App	167	3083.5	98.4	673	10	US-09-990-437-52	Sequence 52, Appl
95	3135	100.0	598	14	US-10-232-222-104	Sequence 104, App	168	3083.5	98.4	673	10	US-09-991-157-52	Sequence 52, Appl
96	3135	100.0	598	14	US-10-219-070-104	Sequence 104, App	169	3083.5	98.4	673	10	US-09-997-514-52	Sequence 52, Appl
97	3135	100.0	598	14	US-10-219-472-104	Sequence 104, App	170	3083.5	98.4	673	10	US-09-997-573-52	Sequence 52, Appl
98	3135	100.0	598	14	US-10-219-527-104	Sequence 104, App	171	3083.5	98.4	673	10	US-09-991-172-52	Sequence 52, Appl
99	3135	100.0	598	14	US-10-227-877-104	Sequence 104, App	172	3083.5	98.4	673	10	US-09-990-726-52	Sequence 52, Appl
100	3135	100.0	598	14	US-10-216-166-104	Sequence 104, App	173	3083.5	98.4	673	10	US-09-997-559-52	Sequence 52, Appl
101	3135	100.0	598	14	US-10-218-612-104	Sequence 104, App	174	3083.5	98.4	673	10	US-09-997-601-52	Sequence 52, Appl
102	3135	100.0	598	14	US-10-216-163-104	Sequence 104, App	175	3083.5	98.4	673	10	US-09-990-443-52	Sequence 52, Appl
103	3135	100.0	598	14	US-10-218-765-104	Sequence 104, App	176	3083.5	98.4	673	10	US-09-991-854-52	Sequence 52, Appl
104	3135	100.0	598	14	US-10-219-063-104	Sequence 104, App	177	3083.5	98.4	673	10	US-09-997-628-52	Sequence 52, Appl
105	3135	100.0	598	14	US-10-219-066-104	Sequence 104, App	178	3083.5	98.4	673	10	US-09-997-683-52	Sequence 52, Appl
106	3135	100.0	598	14	US-10-219-067-104	Sequence 104, App	179	3083.5	98.4	673	10	US-09-989-729A-52	Sequence 52, Appl
107	3135	100.0	598	14	US-10-219-068-104	Sequence 104, App	180	3083.5	98.4	673	10	US-09-997-349-52	Sequence 52, Appl
108	3135	100.0	598	14	US-10-219-069-104	Sequence 104, App	181	3083.5	98.4	673	10	US-09-997-440-52	Sequence 52, Appl
109	3135	100.0	598	14	US-10-219-073-104	Sequence 104, App	182	3083.5	98.4	673	10	US-09-990-440-52	Sequence 52, Appl
110	3135	100.0	598	14	US-10-219-475-104	Sequence 104, App	183	3083.5	98.4	673	10	US-09-997-857-52	Sequence 52, Appl
111	3135	100.0	598	14	US-10-219-480-104	Sequence 104, App	184	3083.5	98.4	673	10	US-09-993-469-52	Sequence 52, Appl
112	3135	100.0	598	14	US-10-219-483-104	Sequence 104, App	185	3083.5	98.4	673	10	US-09-997-542-52	Sequence 52, Appl
113	3135	100.0	598	14	US-10-219-525-104	Sequence 104, App	186	3083.5	98.4	673	10	US-09-993-748-52	Sequence 52, Appl
114	3135	100.0	598	14	US-10-219-526-104	Sequence 104, App	187	3083.5	98.4	673	10	US-09-990-439-52	Sequence 52, Appl
115	3135	100.0	598	14	US-10-219-530-104	Sequence 104, App	188	3083.5	98.4	673	10	US-09-990-428-52	Sequence 52, Appl
116	3135	100.0	598	14	US-10-219-531-104	Sequence 104, App	189	3083.5	98.4	673	10	US-09-989-327-52	Sequence 52, Appl
117	3135	100.0	598	14	US-10-219-532-104	Sequence 104, App	190	3083.5	98.4	673	10	US-09-993-583-52	Sequence 52, Appl
118	3135	100.0	598	14	US-10-219-533-104	Sequence 104, App	191	3083.5	98.4	673	10	US-09-941-992-52	Sequence 52, Appl
119	3135	100.0	598	14	US-10-230-437-104	Sequence 104, App	192	3083.5	98.4	673	10	US-09-992-521-52	Sequence 52, Appl
120	3135	100.0	598	14	US-10-232-228-104	Sequence 104, App	193	3083.5	98.4	673	10	US-09-997-333-52	Sequence 52, Appl
121	3135	100.0	598	15	US-10-429-667-69	Sequence 69, Appl	194	3083.5	98.4	673	10	US-09-997-384-52	Sequence 52, Appl
122	3135	100.0	598	15	US-10-232-226-104	Sequence 104, App	195	3083.5	98.4	673	10	US-09-998-041-52	Sequence 52, Appl
123	3135	100.0	598	15	US-10-230-130-104	Sequence 104, App	196	3083.5	98.4	673	10	US-09-997-585-52	Sequence 52, Appl
124	3135	100.0	598	15	US-10-219-535-104	Sequence 104, App	197	3083.5	98.4	673	10	US-09-997-614-52	Sequence 52, Appl
125	3135	100.0	598	15	US-10-232-230-104	Sequence 104, App	198	3083.5	98.4	673	10	US-09-989-862-52	Sequence 52, Appl
126	3135	100.0	598	15	US-10-677-471-69	Sequence 69, Appl	199	3083.5	98.4	673	10	US-09-997-529-52	Sequence 52, Appl
127	3135	100.0	598	15	US-10-677-669-69	Sequence 69, Appl	200	3083.5	98.4	673	10	US-09-989-725-52	Sequence 52, Appl
128	3135	100.0	598	15	US-10-119-480-104	Sequence 104, App	201	3083.5	98.4	673	10	US-09-991-150-52	Sequence 52, Appl
129	3135	100.0	598	16	US-10-901-400-69	Sequence 69, Appl	202	3083.5	98.4	673	10	US-09-997-641-52	Sequence 52, Appl
130	3135	100.0	598	17	US-10-858-981-69	Sequence 69, Appl	203	3083.5	98.4	673	10	US-09-989-733-52	Sequence 52, Appl
131	3135	100.0	598	17	US-10-899-671-69	Sequence 69, Appl	204	3083.5	98.4	673	10	US-09-992-643-52	Sequence 52, Appl
132	3135	100.0	598	17	US-10-943-353-69	Sequence 69, Appl	205	3083.5	98.4	673	13	US-10-006-867-16	Sequence 16, Appl
133	3083.5	98.4	673	9	US-09-989-722-52	Sequence 52, Appl	206	3083.5	98.4	673	13	US-10-063-547-16	Sequence 16, Appl
134	3083.5	98.4	673	9	US-09-782-980-59	Sequence 59, Appl	207	3083.5	98.4	673	13	US-10-063-551-16	Sequence 16, Appl
135	3083.5	98.4	673	9	US-09-989-723-52	Sequence 52, Appl	208	3083.5	98.4	673	14	US-10-063-616-16	Sequence 16, Appl
136	3083.5	98.4	673	9	US-09-989-729-52	Sequence 52, Appl	209	3083.5	98.4	673	14	US-10-063-569-16	Sequence 16, Appl
137	3083.5	98.4	673	9	US-09-989-727-52	Sequence 52, Appl	210	3083.5	98.4	673	14	US-10-063-513-16	Sequence 16, Appl
138	3083.5	98.4	673	9	US-09-989-731-52	Sequence 52, Appl	211	3083.5	98.4	673	14	US-10-063-515-16	Sequence 16, Appl
139	3083.5	98.4	673	9	US-09-989-732-52	Sequence 52, Appl	212	3083.5	98.4	673	14	US-10-063-512-16	Sequence 16, Appl
140	3083.5	98.4	673	9	US-09-991-073-52	Sequence 52, Appl	213	3083.5	98.4	673	14	US-10-063-502-16	Sequence 16, Appl
141	3083.5	98.4	673	9	US-09-990-442-52	Sequence 52, Appl	214	3083.5	98.4	673	14	US-10-063-549-16	Sequence 16, Appl
142	3083.5	98.4	673	9	US-09-991-163-52	Sequence 52, Appl	215	3083.5	98.4	673	14	US-10-063-554-16	Sequence 16, Appl
143	3083.5	98.4	673	9	US-09-993-604-52	Sequence 52, Appl	216	3083.5	98.4	673	14	US-10-063-553-16	Sequence 16, Appl
144	3083.5	98.4	673	9	US-09-990-456-52	Sequence 52, Appl	217	3083.5	98.4	673	14	US-10-063-518-16	Sequence 16, Appl
145	3083.5	98.4	673	9	US-09-992-598-52	Sequence 52, Appl	218	3083.5	98.4	673	14	US-10-063-598-16	Sequence 16, Appl
146	3083.5	98.4	673	9	US-09-989-232A-52	Sequence 52, Appl	219	3083.5	98.4	673	14	US-10-063-593-16	Sequence 16, Appl
147	3083.5	98.4	673	9	US-09-989-735-52	Sequence 52, Appl	220	3083.5	98.4	673	14	US-10-063-563-16	Sequence 16, Appl
148	3083.5	98.4	673	9	US-09-989-735-52	Sequence 52, Appl	221	3083.5	98.4	673	14	US-10-063-555-16	Sequence 16, Appl
149	3083.5	98.4	673	9	US-09-990-444-52	Sequence 52, Appl	222	3083.5	98.4	673	14	US-10-063-594-16	Sequence 16, Appl
150	3083.5	98.4	673	9	US-09-991-181-52	Sequence 52, Appl	223	3083.5	98.4	673	14	US-10-063-567-16	Sequence 16, Appl
151	3083.5	98.4	673	9	US-09-989-730-52	Sequence 52, Appl	224	3083.5	98.4	673	14	US-10-063-538-16	Sequence 16, Appl
152	3083.5	98.4	673	9	US-09-990-436-52	Sequence 52, Appl	225	3083.5	98.4	673	14	US-10-063-599-16	Sequence 16, Appl
153	3083.5	98.4	673	9	US-09-993-687-52	Sequence 52, Appl	226	3083.5	98.4	673	14	US-10-063-595-16	Sequence 16, Appl
154	3083.5	98.4	673	10	US-09-989-734-52	Sequence 52, Appl	227	3083.5	98.4	673	14	US-10-063-580-16	Sequence 16, Appl
155	3083.5	98.4	673	10	US-09-997-653-52	Sequence 52, Appl	228	3083.5	98.4	673	14	US-10-063-557-16	Sequence 16, Appl
156	3083.5	98.4	673	10	US-09-989-724-52	Sequence 52, Appl	229	3083.5	98.4	673	14	US-10-063-585-16	Sequence 16, Appl
157	3083.5	98.4	673	10	US-09-989-728-52	Sequence 52, Appl	230	3083.5	98.4	673	14	US-10-063-588-16	Sequence 16, Appl
158	3083.5	98.4	673	10	US-09-990-441-52	Sequence 52, Appl	231	3083.5	98.4	673	14	US-10-063-735-16	Sequence 16, Appl
159	3083.5	98.4	673	10	US-09-993-667-52	Sequence 52, Appl	232	3083.5	98.4	673	14	US-10-063-526-16	Sequence 16, Appl

233	3083.5	98.4	673	14	US-10-063-586-16	Sequence 16, Appl	306	3083.5	98.4	673	14	US-10-063-568-16	Sequence 16, Appl
234	3083.5	98.4	673	14	US-10-063-546-16	Sequence 16, Appl	307	3083.5	98.4	673	14	US-10-063-570-16	Sequence 16, Appl
235	3083.5	98.4	673	14	US-10-063-564-16	Sequence 16, Appl	308	3083.5	98.4	673	14	US-10-063-582-16	Sequence 16, Appl
236	3083.5	98.4	673	14	US-10-063-662-16	Sequence 16, Appl	309	3083.5	98.4	673	14	US-10-063-587-16	Sequence 16, Appl
237	3083.5	98.4	673	14	US-10-063-510-16	Sequence 16, Appl	310	3083.5	98.4	673	14	US-10-063-592-16	Sequence 16, Appl
238	3083.5	98.4	673	14	US-10-063-669-16	Sequence 16, Appl	311	3083.5	98.4	673	14	US-10-063-597-16	Sequence 16, Appl
239	3083.5	98.4	673	14	US-10-063-670-16	Sequence 16, Appl	312	3083.5	98.4	673	14	US-10-063-602-16	Sequence 16, Appl
240	3083.5	98.4	673	14	US-10-063-671-16	Sequence 16, Appl	313	3083.5	98.4	673	14	US-10-063-606-16	Sequence 16, Appl
241	3083.5	98.4	673	14	US-10-063-674-16	Sequence 16, Appl	314	3083.5	98.4	673	14	US-10-063-609-16	Sequence 16, Appl
242	3083.5	98.4	673	14	US-10-063-675-16	Sequence 16, Appl	315	3083.5	98.4	673	14	US-10-063-611-16	Sequence 16, Appl
243	3083.5	98.4	673	14	US-10-063-676-16	Sequence 16, Appl	316	3083.5	98.4	673	14	US-10-063-614-16	Sequence 16, Appl
244	3083.5	98.4	673	14	US-10-063-686-16	Sequence 16, Appl	317	3083.5	98.4	673	14	US-10-063-639-16	Sequence 16, Appl
245	3083.5	98.4	673	14	US-10-063-689-16	Sequence 16, Appl	318	3083.5	98.4	673	14	US-10-063-643-16	Sequence 16, Appl
246	3083.5	98.4	673	14	US-10-063-692-16	Sequence 16, Appl	319	3083.5	98.4	673	14	US-10-063-646-16	Sequence 16, Appl
247	3083.5	98.4	673	14	US-10-063-693-16	Sequence 16, Appl	320	3083.5	98.4	673	14	US-10-063-651-16	Sequence 16, Appl
248	3083.5	98.4	673	14	US-10-063-694-16	Sequence 16, Appl	321	3083.5	98.4	673	14	US-10-063-653-16	Sequence 16, Appl
249	3083.5	98.4	673	14	US-10-063-698-16	Sequence 16, Appl	322	3083.5	98.4	673	14	US-10-063-660-16	Sequence 16, Appl
250	3083.5	98.4	673	14	US-10-063-699-16	Sequence 16, Appl	323	3083.5	98.4	673	14	US-10-063-665-16	Sequence 16, Appl
251	3083.5	98.4	673	14	US-10-063-702-16	Sequence 16, Appl	324	3083.5	98.4	673	14	US-10-063-684-16	Sequence 16, Appl
252	3083.5	98.4	673	14	US-10-063-705-16	Sequence 16, Appl	325	3083.5	98.4	673	14	US-10-063-682-16	Sequence 16, Appl
253	3083.5	98.4	673	14	US-10-063-707-16	Sequence 16, Appl	326	3083.5	98.4	673	14	US-10-063-686-16	Sequence 16, Appl
254	3083.5	98.4	673	14	US-10-063-709-16	Sequence 16, Appl	327	3083.5	98.4	673	14	US-10-063-638-16	Sequence 16, Appl
255	3083.5	98.4	673	14	US-10-063-713-16	Sequence 16, Appl	328	3083.5	98.4	673	14	US-10-063-666-16	Sequence 16, Appl
256	3083.5	98.4	673	14	US-10-063-724-16	Sequence 16, Appl	329	3083.5	98.4	673	14	US-10-063-672-16	Sequence 16, Appl
257	3083.5	98.4	673	14	US-10-063-727-16	Sequence 16, Appl	330	3083.5	98.4	673	14	US-10-063-584-16	Sequence 16, Appl
258	3083.5	98.4	673	14	US-10-063-730-16	Sequence 16, Appl	331	3083.5	98.4	673	14	US-10-063-721-16	Sequence 16, Appl
259	3083.5	98.4	673	14	US-10-063-734-16	Sequence 16, Appl	332	3083.5	98.4	673	14	US-10-063-723-16	Sequence

525	330	10.5	653	14	US-10-128-691A-438	Sequence 438, App	598	330	10.5	653	14	US-10-143-033-438	Sequence 438, App
526	330	10.5	653	14	US-10-131-819A-438	Sequence 438, App	599	330	10.5	653	14	US-10-144-994-438	Sequence 438, App
527	330	10.5	653	14	US-10-131-829A-438	Sequence 438, App	600	330	10.5	653	14	US-10-145-628-438	Sequence 438, App
528	330	10.5	653	14	US-10-131-836A-438	Sequence 438, App	601	330	10.5	653	14	US-10-145-746-438	Sequence 438, App
529	330	10.5	653	14	US-10-146-729-438	Sequence 438, App	602	330	10.5	653	14	US-10-145-748-438	Sequence 438, App
530	330	10.5	653	14	US-10-146-791-438	Sequence 438, App	603	330	10.5	653	14	US-10-145-823-438	Sequence 438, App
531	330	10.5	653	14	US-10-147-484-438	Sequence 438, App	604	330	10.5	653	14	US-10-145-826-438	Sequence 438, App
532	330	10.5	653	14	US-10-147-508-438	Sequence 438, App	605	330	10.5	653	14	US-10-145-870-438	Sequence 438, App
533	330	10.5	653	14	US-10-147-512-438	Sequence 438, App	606	330	10.5	653	14	US-10-145-876-438	Sequence 438, App
534	330	10.5	653	14	US-10-175-735-438	Sequence 438, App	607	330	10.5	653	14	US-10-145-959-438	Sequence 438, App
535	330	10.5	653	14	US-10-121-040-438	Sequence 438, App	608	330	10.5	653	14	US-10-146-724-438	Sequence 438, App
536	330	10.5	653	14	US-10-121-056-438	Sequence 438, App	609	330	10.5	653	14	US-10-146-725-438	Sequence 438, App
537	330	10.5	653	14	US-10-121-061-438	Sequence 438, App	610	330	10.5	653	14	US-10-146-795-438	Sequence 438, App
538	330	10.5	653	14	US-10-123-235-438	Sequence 438, App	611	330	10.5	653	14	US-10-147-495-438	Sequence 438, App
539	330	10.5	653	14	US-10-124-818-438	Sequence 438, App	612	330	10.5	653	14	US-10-147-501-438	Sequence 438, App
540	330	10.5	653	14	US-10-137-868-438	Sequence 438, App	613	330	10.5	653	14	US-10-147-504-438	Sequence 438, App
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542	330	10.5	653	14	US-10-158-782-438	Sequence 438, App	615	330	10.5	653	14	US-10-147-509-438	Sequence 438, App
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ALIGNMENTS

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; Patent No. US20020058309A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kijavini, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tamas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P2548PIC1
; CURRENT APPLICATION NUMBER: US/09/866,028
; CURRENT FILING DATE: 2001-05-25
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 69
; LENGTH: 598
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-866-028-69

Query Match 100.0%; Score 3135; DB 9; Length 598;
Best Local Similarity 100.0%; Pred. No. 1.6e-194;
Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 2
US-09-944-449-69
; Sequence 69, Application US/09944449
; Patent No. US20020102647A1
; GENERAL INFORMATION:
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; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Geritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
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; APPLICANT: Gurney, Austin
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; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,449
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
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; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
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; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020102647A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020102647A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 69
; LENGTH: 598
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-449-69
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Query Match      100.0%; Score 3135; DB 9; Length 598;
Best Local Similarity 100.0%; Pred. No. 1.6e-194;
Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MCSRVPLLLALLLALGPGVCGSCGCSOQOTVCTAROGTTVPDRVDPDTVGLYVF 60
DB 1 MCSRVPLLLALLLALGPGVCGSCGCSOQOTVCTAROGTTVPDRVDPDTVGLYVF 60

QY 61 ENGITMDASSFAGLPGQLLDLSONQIASRLPRLLLDLSHNSLLALEPGLDITANVE 120
DB 61 ENGITMDASSFAGLPGQLLDLSONQIASRLPRLLLDLSHNSLLALEPGLDITANVE 120

QY 121 ALRLAGLQOQDEGLFSLRLNHLDVDNDQLRVPVIRGLRGLTRLRAGNTRIAQL 180
DB 121 ALRLAGLQOQDEGLFSLRLNHLDVDNDQLRVPVIRGLRGLTRLRAGNTRIAQL 180

QY 181 REDLAGLAAQLDVLNSLSQALPGDLSGLPRRLRLAAARNPNCVCLPISWFGPWRE 240
DB 181 REDLAGLAAQLDVLNSLSQALPGDLSGLPRRLRLAAARNPNCVCLPISWFGPWRE 240

QY 241 SHVTLASPETRCHPPKKNAGRLLELDYADFQCPATTTTATVPTTRPVVREPTALSSSL 300
DB 241 SHVTLASPETRCHPPKKNAGRLLELDYADFQCPATTTTATVPTTRPVVREPTALSSSL 300

QY 301 APTWLSPTAPATEAPSPSTAPTPTGVPVPOQDCPPSTCLNGTCHLGRHHLACLCPRG 360
DB 301 APTWLSPTAPATEAPSPSTAPTPTGVPVPOQDCPPSTCLNGTCHLGRHHLACLCPRG 360

QY 361 FTGLYCESOMGGTSPSTPTVTPRPRSLTGLIEPVSPLSVGLQRYLQSSVQLRSRL 420
DB 361 FTGLYCESOMGGTSPSTPTVTPRPRSLTGLIEPVSPLSVGLQRYLQSSVQLRSRL 420

QY 421 LTYRNLSPGDKRLVTLRLPASLAETVTLQRLNATYSVCWPLPGCRVPEGEACEAHT 480
DB 421 LTYRNLSPGDKRLVTLRLPASLAETVTLQRLNATYSVCWPLPGCRVPEGEACEAHT 480

QY 481 PPAVSHNAPVTOAREGNLPLLIAPALAAVLAALAAVGAAYCVRRGRAMAAAAQDKGV 540
DB 481 PPAVSHNAPVTOAREGNLPLLIAPALAAVLAALAAVGAAYCVRRGRAMAAAAQDKGV 540

QY 541 GPGAGPLEGKVKVLEPGPKATEGGEALPGSCEVEPLMGFPGLQSPHAKPYI 598
DB 541 GPGAGPLEGKVKVLEPGPKATEGGEALPGSCEVEPLMGFPGLQSPHAKPYI 598

RESULT 3
US-09-944-457-69
; Sequence 69, Application US/09944457
; Patent No. US20020110859A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,457
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020110859A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020110859A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
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; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 69
; LENGTH: 598
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-457-69

Query Match      100.0%; Score 3135; DB 9; Length 598;
Best Local Similarity 100.0%; Pred. No. 1.6e-194;
Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MCSRVPLLLPLLLLLALPGVQGPCSGCCQCPQPTVCTARQGTTPRDVPPDTVGLVYF 60
Db 1 MCSRVPLLLPLLLLLALPGVQGPCSGCCQCPQPTVCTARQGTTPRDVPPDTVGLVYF 60

Qy 61 ENGITMLDASSFAGLPGIQLLDLSONQIASLRLPRLLLDLSHNSLLALEPGILDANVE 120
Db 61 ENGITMLDASSFAGLPGIQLLDLSONQIASLRLPRLLLDLSHNSLLALEPGILDANVE 120

Qy 121 ALRLAGLQGLQDLGLFSRLNHLHDLDVSDNQLRVPVPIRGLRGLTRLRLAGNTRIAQL 180
Db 121 ALRLAGLQGLQDLGLFSRLNHLHDLDVSDNQLRVPVPIRGLRGLTRLRLAGNTRIAQL 180

Qy 181 RPEDLAGLAALQELDVSNLSLQALPGDLGSLFPRLLRLAAARNPFCVPLSWFGPWVRE 240
Db 181 RPEDLAGLAALQELDVSNLSLQALPGDLGSLFPRLLRLAAARNPFCVPLSWFGPWVRE 240

Qy 241 SHVTLASPEETRCFFPKNAGRLLELDYADFGCPATTTTATVTPTRPVVREPTALSSSL 300
Db 241 SHVTLASPEETRCFFPKNAGRLLELDYADFGCPATTTTATVTPTRPVVREPTALSSSL 300

Qy 301 APTWLSPTAPATEAPSPSTAPPTVGPVPQDCCPPSTCLNGGTCGLGTRHHLACLCPGEG 360
Db 301 APTWLSPTAPATEAPSPSTAPPTVGPVPQDCCPPSTCLNGGTCGLGTRHHLACLCPGEG 360

Qy 361 FTGLYCSQMGQGRTPSTPTVTPRPSRLTIGIPVSPTSIRVGLQRYLQSSVOLRSRLR 420
Db 361 FTGLYCSQMGQGRTPSTPTVTPRPSRLTIGIPVSPTSIRVGLQRYLQSSVOLRSRLR 420

Qy 421 LTYRNLSGPDRLVTLRLPASLAETVTLQRPNATYSVCVNPGLGPRVPEGEACGAHT 480
Db 421 LTYRNLSGPDRLVTLRLPASLAETVTLQRPNATYSVCVNPGLGPRVPEGEACGAHT 480

Qy 481 PPAVHSHNAPVTOAREGNLPLLIAPALAAVLLAALAAVGAAYCVRGRGRAMAAQAQDKGV 540
Db 481 PPAVHSHNAPVTOAREGNLPLLIAPALAAVLLAALAAVGAAYCVRGRGRAMAAQAQDKGV 540

Qy 541 GPGAGPLEGVKVPLEPGPKATEGGGEGALPSGSECEVPLMGFPGLQSPHAKPYI 598
Db 541 GPGAGPLEGVKVPLEPGPKATEGGGEGALPSGSECEVPLMGFPGLQSPHAKPYI 598

RESULT 4
US-09-944-862-69
; Sequence 69, Application US/09944862
; Patent No. US20020115145A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: ROY, Margaret
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; APPLICANT: Tamas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,862
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020115145A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020115145A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
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; PRIOR APPLICATION NUMBER: PCT/US00/08439
 ; PRIOR FILING DATE: March 30, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/14042
 ; PRIOR FILING DATE: May 22, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/20710
 ; PRIOR FILING DATE: July 28, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/32678
 ; PRIOR FILING DATE: December 1, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US01/06520
 ; PRIOR FILING DATE: February 28, 2001
 ; NUMBER OF SEQ ID NOS: 120
 ; SEQ ID NO 69
 ; LENGTH: 598
 ; TYPE: PRT
 ; ORGANISM: Homo Sapien
 US-09-944-862-69

Query Match 100.0%; Score 3135; DB 9; Length 598;
 Best Local Similarity 100.0%; Pred. No. 1.6e-194;
 Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	MCSRVPLLLP	LLLLALG	GVGQCP	SGCQSQ	PQT	VFC	TAR	QCT	TTP	VRD	VP	PD	TG	LY	VF	60
DB	1	MCSRVPLLLP	LLLLALG	GVGQCP	SGCQSQ	PQT	VFC	TAR	QCT	TTP	VRD	VP	PD	TG	LY	VF	60
QY	61	ENGITMD	ASSFAG	UGLQ	LDLSQ	NIAS	RLPR	LLLD	LSH	NSLL	AL	EP	GLD	TAN	VE	120	
DB	61	ENGITMD	ASSFAG	UGLQ	LDLSQ	NIAS	RLPR	LLLD	LSH	NSLL	AL	EP	GLD	TAN	VE	120	
QY	121	ALRLAGL	GOQD	EGLS	FRSL	RNLH	DL	VD	SD	NOL	RP	VP	VI	RG	LT	RL	
DB	121	ALRLAGL	GOQD	EGLS	FRSL	RNLH	DL	VD	SD	NOL	RP	VP	VI	RG	LT	RL	
QY	181	RPEDLAG	LAALQ	ELD	VSNLS	LOAL	PD	LS	GL	PR	RL	LI	AA	NP	NC	VP	
DB	181	RPEDLAG	LAALQ	ELD	VSNLS	LOAL	PD	LS	GL	PR	RL	LI	AA	NP	NC	VP	
QY	241	SHVTLAS	PETR	CH	FP	PK	NAG	RL	LE	DY	AD	FG	CP	AT	T	T	
DB	241	SHVTLAS	PETR	CH	FP	PK	NAG	RL	LE	DY	AD	FG	CP	AT	T	T	
QY	301	APTWS	PTAP	AT	AP	SP	TP	TP	TP	TP	TP	TP	TP	TP	TP	TP	
DB	301	APTWS	PTAP	AT	AP	SP	TP	TP	TP	TP	TP	TP	TP	TP	TP	TP	
QY	361	FTGL	CESQ	MG	QTR	SP	TP	TP	TP	TP	TP	TP	TP	TP	TP	TP	
DB	361	FTGL	CESQ	MG	QTR	SP	TP	TP	TP	TP	TP	TP	TP	TP	TP	TP	
QY	421	LT	YRNL	SG	PD	KRL	VT	LR	LP	AS	LA	EY	TV	TL	Q	LP	
DB	421	LT	YRNL	SG	PD	KRL	VT	LR	LP	AS	LA	EY	TV	TL	Q	LP	
QY	481	PPAV	SNH	AP	VT	Q	ARE	GN	PL	LI	AP	AL	AA	VA	AA	CV	
DB	481	PPAV	SNH	AP	VT	Q	ARE	GN	PL	LI	AP	AL	AA	VA	AA	CV	
QY	541	GP	CAG	PLE	EG	VK	VP	LE	GP	K	TE	G	GE	AL	PS	GE	
DB	541	GP	CAG	PLE	EG	VK	VP	LE	GP	K	TE	G	GE	AL	PS	GE	

RESULT 5

US-09-945-587-69
 ; Sequence 69, Application US/09945587
 ; Patent No. US20020127643A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Baker, Kevin
 ; APPLICANT: Botstein, David
 ; APPLICANT: Eaton, Dan
 ; APPLICANT: Ferrara, Napoleone
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Gerritsen, Mary

; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul
 ; APPLICANT: Grimaldi, Christopher
 ; APPLICANT: Gurney, Austin
 ; APPLICANT: Hillan, Kenneth
 ; APPLICANT: Kljavin, Ivar
 ; APPLICANT: Napier, Mary
 ; APPLICANT: Roy, Margaret
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Wood, William
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
 ; FILE REFERENCE: P2548P1C1
 ; CURRENT APPLICATION NUMBER: US/09/945,587
 ; CURRENT FILING DATE: 2001-09-26
 ; PRIOR APPLICATION NUMBER: 09/866,028
 ; PRIOR FILING DATE: 2001-05-25
 ; PRIOR APPLICATION NUMBER: 60/067,411
 ; PRIOR FILING DATE: December 3, 1997
 ; PRIOR APPLICATION NUMBER: 60/069,334
 ; PRIOR FILING DATE: December 11, 1997
 ; PRIOR APPLICATION NUMBER: 60/069,335
 ; PRIOR FILING DATE: December 11, 1997
 ; PRIOR APPLICATION NUMBER: 60/069,278
 ; PRIOR FILING DATE: December 11, 1997
 ; PRIOR APPLICATION NUMBER: 60/069,425
 ; PRIOR FILING DATE: December 12, 1997
 ; PRIOR APPLICATION NUMBER: 60/069,696
 ; PRIOR FILING DATE: December 16, 1997
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 ; PRIOR FILING DATE: December 16, 1997
 ; PRIOR APPLICATION NUMBER: 60/069,870
 ; PRIOR FILING DATE: December 17, 1997
 ; PRIOR APPLICATION NUMBER: 60/069,873
 ; PRIOR FILING DATE: December 17, 1997
 ; PRIOR APPLICATION NUMBER: 60/068,017
 ; PRIOR FILING DATE: December 18, 1997
 ; PRIOR APPLICATION NUMBER: 60/070,440
 ; PRIOR FILING DATE: January 5, 1998
 ; PRIOR APPLICATION NUMBER: 60/074,086
 ; PRIOR FILING DATE: February 9, 1998
 ; PRIOR APPLICATION NUMBER: 60/074,092
 ; PRIOR FILING DATE: February 9, 1998
 ; PRIOR APPLICATION NUMBER: 60/075,945
 ; PRIOR FILING DATE: February 25, 1998
 ; PRIOR APPLICATION NUMBER: 60/112,850
 ; PRIOR FILING DATE: December 16, 1998
 ; PRIOR APPLICATION NUMBER: 60/113,296
 ; PRIOR FILING DATE: December 22, 1998
 ; PRIOR APPLICATION NUMBER: 60/146,222
 ; PRIOR FILING DATE: July 28, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US98/19330
 ; PRIOR FILING DATE: September 16, 1998
 ; PRIOR APPLICATION NUMBER: PCT/US98/25108
 ; PRIOR FILING DATE: December 1, 1998
 ; PRIOR APPLICATION NUMBER: 09/216,021
 ; PRIOR FILING DATE: December 16, 1998
 ; PRIOR APPLICATION NUMBER: 09/218,517
 ; PRIOR FILING DATE: December 22, 1998
 ; PRIOR APPLICATION NUMBER: 09/254,311
 ; PRIOR FILING DATE: March 3, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/12252
 ; PRIOR FILING DATE: June 22, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090
 ; PRIOR FILING DATE: September 15, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/28409
 ; PRIOR FILING DATE: No. US20020127643A1ember 30, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/28313
 ; PRIOR FILING DATE: No. US20020127643A1ember 30, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/28301
 ; PRIOR FILING DATE: December 1, 1999

;; PRIOR APPLICATION NUMBER: PCT/US99/30095
;; PRIOR FILING DATE: December 16, 1999
;; PRIOR APPLICATION NUMBER: PCT/US00/03565
;; PRIOR FILING DATE: February 11, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/04414
;; PRIOR FILING DATE: February 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/05841
;; PRIOR FILING DATE: March 2, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/08439
;; PRIOR FILING DATE: March 30, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/14042
;; PRIOR FILING DATE: May 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/20710
;; PRIOR FILING DATE: July 28, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/32678
;; PRIOR FILING DATE: December 1, 2000
;; PRIOR APPLICATION NUMBER: PCT/US01/06520
;; PRIOR FILING DATE: February 28, 2001
;; NUMBER OF SEQ ID NOS: 120
;; SEQ ID NO 69
;; LENGTH: 598
;; TYPE: PRT
;; ORGANISM: Homo Sapien
US-09-945-587-69

Query Match 100.0%; Score 3135; DB 9; Length 598;
Best Local Similarity 100.0%; Pred. No. 1.6e-194;
Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MCSRVPLLLPLLLLALPGVQGPCSGCQCQPOTVCTARQGTTPVDRDPPDTVGLVVF 60
Db 1 MCSRVPLLLPLLLLALPGVQGPCSGCQCQPOTVCTARQGTTPVDRDPPDTVGLVVF 60

Qy 61 ENGITMLDASSFAGLPGQLLDLSQNIASRLPRLLLDLSHNSLLALEPGILDANVE 120
Db 61 ENGITMLDASSFAGLPGQLLDLSQNIASRLPRLLLDLSHNSLLALEPGILDANVE 120

Qy 121 ALRLAGLQLODGLSRLRNHLDLVDSDNQLSRVPPVIRGLRGLTRLRAGNTRIAQL 180
Db 121 ALRLAGLQLODGLSRLRNHLDLVDSDNQLSRVPPVIRGLRGLTRLRAGNTRIAQL 180

Qy 181 RPEDLAGLAALQELDVSNLSQALPGDLGSLFPRLLLLAAARNFNCVPLSWFGPWVRE 240
Db 181 RPEDLAGLAALQELDVSNLSQALPGDLGSLFPRLLLLAAARNFNCVPLSWFGPWVRE 240

Qy 241 SHVTLASPEETRCHFPKPNAGRLLELDYADFGCPATTTTATVTPTRPVVREPTALSSSL 300
Db 241 SHVTLASPEETRCHFPKPNAGRLLELDYADFGCPATTTTATVTPTRPVVREPTALSSSL 300

Qy 301 APTWLSPTAPATEARSPSPSTAPPTVGPVQPDCCPSTCLNGGTCGLGTRHHLACLCPG 360
Db 301 APTWLSPTAPATEARSPSPSTAPPTVGPVQPDCCPSTCLNGGTCGLGTRHHLACLCPG 360

Qy 361 FTGLYCSQMCGQTRPSTPTVTPRPSRLTLGIEVPSPSLRVGLQRYLQSSSVQLRSRLR 420
Db 361 FTGLYCSQMCGQTRPSTPTVTPRPSRLTLGIEVPSPSLRVGLQRYLQSSSVQLRSRLR 420

Qy 421 LTYRNLSGPKRLVTLRLPASLABYTVTQLRPNATYSVCVMPLGFGRVPEGEACGAHT 480
Db 421 LTYRNLSGPKRLVTLRLPASLABYTVTQLRPNATYSVCVMPLGFGRVPEGEACGAHT 480

Qy 481 PPVHSHNAPVTOAREGNLPLIIAPALAAVLLAALAAVGAAYCYVRGRAMAAADQGV 540
Db 481 PPVHSHNAPVTOAREGNLPLIIAPALAAVLLAALAAVGAAYCYVRGRAMAAADQGV 540

Qy 541 GPGAGPLEGKVPLEPGPKATGEGEALPGSGEVEPLMGFPQGLQSPHLHAKPYI 598
Db 541 GPGAGPLEGKVPLEPGPKATGEGEALPGSGEVEPLMGFPQGLQSPHLHAKPYI 598

RESULT 6
US-09-945-015-69
; Sequence 69, Application US/09945015

;; Patent No. US20020132768A1
;; GENERAL INFORMATION:
;; APPLICANT: Baker, Kevin
;; APPLICANT: Botstein, David
;; APPLICANT: Eaton, Dan
;; APPLICANT: Ferrara, Napoleone
;; APPLICANT: Filvaroff, Ellen
;; APPLICANT: Gerritsen, Mary
;; APPLICANT: Goddard, Audrey
;; APPLICANT: Godowski, Paul
;; APPLICANT: Grimaldi, Christopher
;; APPLICANT: Gurney, Austin
;; APPLICANT: Hillan, Kenneth
;; APPLICANT: Kijavin, Ivar
;; APPLICANT: Napier, Mary
;; APPLICANT: Roy, Margaret
;; APPLICANT: Tumas, Daniel
;; APPLICANT: Wood, William
;; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;; FILE REFERENCE: P2548PICI
;; CURRENT APPLICATION NUMBER: US/09/945,015
;; CURRENT FILING DATE: 2001-09-26
;; PRIOR APPLICATION NUMBER: 09/866,028
;; PRIOR FILING DATE: 2001-05-25
;; PRIOR APPLICATION NUMBER: 60/067,411
;; PRIOR FILING DATE: December 3, 1997
;; PRIOR APPLICATION NUMBER: 60/069,334
;; PRIOR FILING DATE: December 11, 1997
;; PRIOR APPLICATION NUMBER: 60/069,335
;; PRIOR FILING DATE: December 11, 1997
;; PRIOR APPLICATION NUMBER: 60/069,278
;; PRIOR FILING DATE: December 11, 1997
;; PRIOR APPLICATION NUMBER: 60/069,425
;; PRIOR FILING DATE: December 12, 1997
;; PRIOR APPLICATION NUMBER: 60/069,696
;; PRIOR FILING DATE: December 16, 1997
;; PRIOR APPLICATION NUMBER: 60/069,694
;; PRIOR FILING DATE: December 16, 1997
;; PRIOR APPLICATION NUMBER: 60/069,702
;; PRIOR FILING DATE: December 16, 1997
;; PRIOR APPLICATION NUMBER: 60/069,870
;; PRIOR FILING DATE: December 17, 1997
;; PRIOR APPLICATION NUMBER: 60/069,873
;; PRIOR FILING DATE: December 17, 1997
;; PRIOR APPLICATION NUMBER: 60/068,017
;; PRIOR FILING DATE: December 18, 1997
;; PRIOR APPLICATION NUMBER: 60/070,440
;; PRIOR FILING DATE: January 5, 1998
;; PRIOR APPLICATION NUMBER: 60/074,086
;; PRIOR FILING DATE: February 9, 1998
;; PRIOR APPLICATION NUMBER: 60/074,092
;; PRIOR FILING DATE: February 9, 1998
;; PRIOR APPLICATION NUMBER: 60/075,945
;; PRIOR FILING DATE: February 25, 1998
;; PRIOR APPLICATION NUMBER: 60/112,850
;; PRIOR FILING DATE: December 16, 1998
;; PRIOR APPLICATION NUMBER: 60/113,296
;; PRIOR FILING DATE: December 22, 1998
;; PRIOR APPLICATION NUMBER: 60/146,222
;; PRIOR FILING DATE: July 28, 1999
;; PRIOR APPLICATION NUMBER: PCT/US98/19330
;; PRIOR FILING DATE: September 16, 1998
;; PRIOR APPLICATION NUMBER: PCT/US98/25108
;; PRIOR FILING DATE: December 1, 1998
;; PRIOR APPLICATION NUMBER: 09/216,021
;; PRIOR FILING DATE: December 16, 1998
;; PRIOR APPLICATION NUMBER: 09/218,517
;; PRIOR FILING DATE: December 22, 1998
;; PRIOR APPLICATION NUMBER: 09/254,311
;; PRIOR FILING DATE: March 3, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/12252
;; PRIOR FILING DATE: June 22, 1999

;; PRIOR APPLICATION NUMBER: PCT/US99/21090
;; PRIOR FILING DATE: September 15, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28409
;; PRIOR FILING DATE: No. US20020132768A1ember 30, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28313
;; PRIOR FILING DATE: No. US20020132768A1ember 30, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28301
;; PRIOR FILING DATE: December 1, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/30095
;; PRIOR FILING DATE: December 16, 1999
;; PRIOR APPLICATION NUMBER: PCT/US00/03565
;; PRIOR FILING DATE: February 11, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/04414
;; PRIOR FILING DATE: February 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/05841
;; PRIOR FILING DATE: March 2, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/08439
;; PRIOR FILING DATE: March 30, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/14042
;; PRIOR FILING DATE: May 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/20710
;; PRIOR FILING DATE: July 28, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/32678
;; PRIOR FILING DATE: December 1, 2000
;; PRIOR APPLICATION NUMBER: PCT/US01/06520
;; PRIOR FILING DATE: February 28, 2001
;; NUMBER OF SEQ ID NOS: 120
;; SEQ ID NO 69
;; LENGTH: 598
;; TYPE: PRT
;; ORGANISM: Homo Sapien
US-09-945-015-69

Query Match 100.0%; Score 3135; DB 9; Length 598;
Best Local Similarity 100.0%; Pred. No. 1.6e-194;
Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MCSRVPLLLPLLLALLGALGVGCGPCGCGCCSQPQTVCCTARQGTTPVDRVPPDTVGLYVF 60
DB 1 MCSRVPLLLPLLLALLGALGVGCGPCGCGCCSQPQTVCCTARQGTTPVDRVPPDTVGLYVF 60
QY 61 ENGITMLDASSFAGLPGQLLDLSQNIASRLPRLLLLDLSHNSLLALEPGLDITANVE 120
DB 61 ENGITMLDASSFAGLPGQLLDLSQNIASRLPRLLLLDLSHNSLLALEPGLDITANVE 120
QY 121 ALRLAGLGHQQLDEGLFSRLNHLHDVSDNQLERVPVIRGLRGLTRLRLAGNTRIAQL 180
DB 121 ALRLAGLGHQQLDEGLFSRLNHLHDVSDNQLERVPVIRGLRGLTRLRLAGNTRIAQL 180
QY 181 RPEDLAGLAALQELDVSNLSLQALPGDLGSLFPRRLAAARNPFCVCPLSWFGPWVRE 240
DB 181 RPEDLAGLAALQELDVSNLSLQALPGDLGSLFPRRLAAARNPFCVCPLSWFGPWVRE 240
QY 241 SHVTLASPETCHFPKKNAGRLLELDVADFGCPATTTTATVTPTRPVVREPTALSSSL 300
DB 241 SHVTLASPETCHFPKKNAGRLLELDVADFGCPATTTTATVTPTRPVVREPTALSSSL 300
QY 301 APTWLSPTAPATEAPSPPTAPPTVGPVPOPCDPCSTCLNGTCHLGRHHLACLCPG 360
DB 301 APTWLSPTAPATEAPSPPTAPPTVGPVPOPCDPCSTCLNGTCHLGRHHLACLCPG 360
QY 361 FTGLYCESQMGQGTSPPTVTPRPRSLTLGIEPVSPSLRVLGRLQGSVQLRSRL 420
DB 361 FTGLYCESQMGQGTSPPTVTPRPRSLTLGIEPVSPSLRVLGRLQGSVQLRSRL 420
QY 421 LTYRNLGSGDKRLVTLRLPASLAETVTLQLRPNATYVSCVMPILGPRVPEGEACGEAT 480
DB 421 LTYRNLGSGDKRLVTLRLPASLAETVTLQLRPNATYVSCVMPILGPRVPEGEACGEAT 480
QY 481 PPAVSHNAPVTOAREGNPLLIAPALAAVLAALAAVCAAYCVRGRMAAAQDKGV 540
DB 481 PPAVSHNAPVTOAREGNPLLIAPALAAVLAALAAVCAAYCVRGRMAAAQDKGV 540

QY 541 GPGAGPLEGVKVPLEPGPKATEGGGRALPGSSECEVPLMGFPGLQSPHAKPYI 598
DB 541 GPGAGPLEGVKVPLEPGPKATEGGGRALPGSSECEVPLMGFPGLQSPHAKPYI 598

RESULT 7

US-09-944-396-69
;; Sequence 69, Application US/09944396
;; Patent No. US20020132981A1
;; GENERAL INFORMATION:
;; APPLICANT: Baker, Kevin
;; APPLICANT: Botstein, David
;; APPLICANT: Eaton, Dan
;; APPLICANT: Ferrara, Napoleone
;; APPLICANT: Filvaroff, Ellen
;; APPLICANT: Gerritsen, Mary
;; APPLICANT: Goddard, Audrey
;; APPLICANT: Godowski, Paul
;; APPLICANT: Grimaldi, Christopher
;; APPLICANT: Gurney, Austin
;; APPLICANT: Hillan, Kenneth
;; APPLICANT: Kljavin, Ivar
;; APPLICANT: Napier, Mary
;; APPLICANT: Roy, Margaret
;; APPLICANT: Tumas, Daniel
;; APPLICANT: Wood, William
;; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;; TITLE OF INVENTION: ACIDS ENCODING THE SAME
;; FILE REFERENCE: P2548P1C1
;; CURRENT APPLICATION NUMBER: US/09/944,396
;; CURRENT FILING DATE: 2001-09-26
;; PRIOR APPLICATION NUMBER: 09/866,028
;; PRIOR FILING DATE: 2001-05-25
;; PRIOR APPLICATION NUMBER: 60/067,411
;; PRIOR FILING DATE: December 3, 1997
;; PRIOR APPLICATION NUMBER: 60/069,334
;; PRIOR FILING DATE: December 11, 1997
;; PRIOR APPLICATION NUMBER: 60/069,335
;; PRIOR FILING DATE: December 11, 1997
;; PRIOR APPLICATION NUMBER: 60/069,278
;; PRIOR FILING DATE: December 11, 1997
;; PRIOR APPLICATION NUMBER: 60/069,425
;; PRIOR FILING DATE: December 12, 1997
;; PRIOR APPLICATION NUMBER: 60/069,696
;; PRIOR FILING DATE: December 16, 1997
;; PRIOR APPLICATION NUMBER: 60/069,694
;; PRIOR FILING DATE: December 16, 1997
;; PRIOR APPLICATION NUMBER: 60/069,702
;; PRIOR FILING DATE: December 16, 1997
;; PRIOR APPLICATION NUMBER: 60/069,870
;; PRIOR FILING DATE: December 17, 1997
;; PRIOR APPLICATION NUMBER: 60/069,873
;; PRIOR FILING DATE: December 17, 1997
;; PRIOR APPLICATION NUMBER: 60/074,086
;; PRIOR FILING DATE: January 5, 1998
;; PRIOR APPLICATION NUMBER: 60/074,086
;; PRIOR FILING DATE: February 9, 1998
;; PRIOR APPLICATION NUMBER: 60/074,092
;; PRIOR FILING DATE: February 9, 1998
;; PRIOR APPLICATION NUMBER: 60/075,945
;; PRIOR FILING DATE: February 25, 1998
;; PRIOR APPLICATION NUMBER: 60/112,850
;; PRIOR FILING DATE: December 16, 1998
;; PRIOR APPLICATION NUMBER: 60/113,296
;; PRIOR FILING DATE: December 22, 1998
;; PRIOR APPLICATION NUMBER: 60/146,222
;; PRIOR FILING DATE: July 28, 1999
;; PRIOR APPLICATION NUMBER: PCT/US98/19330
;; PRIOR FILING DATE: September 16, 1998
;; PRIOR APPLICATION NUMBER: PCT/US98/25108
;; PRIOR FILING DATE: December 1, 1998

; PRIOR APPLICATION NUMBER: 09/216,021
 ; PRIOR FILING DATE: December 16, 1998
 ; PRIOR APPLICATION NUMBER: 09/218,517
 ; PRIOR FILING DATE: December 22, 1998
 ; PRIOR APPLICATION NUMBER: 09/254,311
 ; PRIOR FILING DATE: March 3, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/12252
 ; PRIOR FILING DATE: June 22, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/21090
 ; PRIOR FILING DATE: September 15, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/28409
 ; PRIOR FILING DATE: No. US20020132981A
 ; PRIOR APPLICATION NUMBER: PCT/US99/28313
 ; PRIOR FILING DATE: No. US20020132981A
 ; PRIOR APPLICATION NUMBER: PCT/US99/28301
 ; PRIOR FILING DATE: December 1, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US99/30095
 ; PRIOR FILING DATE: December 16, 1999
 ; PRIOR APPLICATION NUMBER: PCT/US00/03565
 ; PRIOR FILING DATE: February 11, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/04414
 ; PRIOR FILING DATE: February 22, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/05841
 ; PRIOR FILING DATE: March 2, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/08439
 ; PRIOR FILING DATE: March 30, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/14042
 ; PRIOR FILING DATE: May 22, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/20710
 ; PRIOR FILING DATE: July 28, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US00/32678
 ; PRIOR FILING DATE: December 1, 2000
 ; PRIOR APPLICATION NUMBER: PCT/US01/06520
 ; PRIOR FILING DATE: February 28, 2001
 ; NUMBER OF SEQ ID NOS: 120
 ; SEQ ID NO 69
 ; LENGTH: 598
 ; TYPE: PRT
 ; ORGANISM: Homo Sapien
 ; US-09-944-396-69

Query Match 100.0%; Score 3135; DB 9; Length 598;
 Best Local Similarity 100.0%; Pred. No. 1.6e-194;
 Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 MCSRVPLLLPLLLLALGPGVQGCPSGCCSQPQTVCCTARQGTTPRDVPPDVTGLYVF 60
 Db 1 MCSRVPLLLPLLLLALGPGVQGCPSGCCSQPQTVCCTARQGTTPRDVPPDVTGLYVF 60
 Qy 61 ENGITMLDASSFAGLPGILDLSONQIASLRLLLLDLSHNSLLALEPGLDTANVE 120
 Db 61 ENGITMLDASSFAGLPGILDLSONQIASLRLLLLDLSHNSLLALEPGLDTANVE 120
 Qy 121 ALRLAGLGLQDLGLSRLNRLHDLSDVSNQLERVPVIRGLRGLRRLRAGNTRIAQL 180
 Db 121 ALRLAGLGLQDLGLSRLNRLHDLSDVSNQLERVPVIRGLRGLRRLRAGNTRIAQL 180
 Qy 181 RPEDLAGLALQELDVNSLSLQALPGDLSGLFPRLRLAAARNPNCVPLSWFGPWVRE 240
 Db 181 RPEDLAGLALQELDVNSLSLQALPGDLSGLFPRLRLAAARNPNCVPLSWFGPWVRE 240
 Qy 241 SHVTLASPEETRCHFPKNAKRLLELDYADFGCPATTTTATVTPTRVREPTALSSSL 300
 Db 241 SHVTLASPEETRCHFPKNAKRLLELDYADFGCPATTTTATVTPTRVREPTALSSSL 300
 Qy 301 APTWLSPTAPATEAPSPSTAPPTVGPVQPDCCPPSTCLNGGTCHLGRHHLACLCPGEG 360
 Db 301 APTWLSPTAPATEAPSPSTAPPTVGPVQPDCCPPSTCLNGGTCHLGRHHLACLCPGEG 360
 Qy 361 FTGLYCSQMGQGRPSPTPTVPPRSLTLTGIPVSPSTSLRVGLQRYLQSSSVQLRSLR 420
 Db 361 FTGLYCSQMGQGRPSPTPTVPPRSLTLTGIPVSPSTSLRVGLQRYLQSSSVQLRSLR 420

Qy 421 LTVRNLSGPKRLVTLRLPASLAETVTVQLRPNATYSVCMPLGPGRVPEGEACGEAHT 480
 Db 421 LTVRNLSGPKRLVTLRLPASLAETVTVQLRPNATYSVCMPLGPGRVPEGEACGEAHT 480
 Qy 481 PPAVHSHNAPVTOAREGNLPLLIAPALAAVLLAALAAVGAAYCVRGRAMAAAAQDKGV 540
 Db 481 PPAVHSHNAPVTOAREGNLPLLIAPALAAVLLAALAAVGAAYCVRGRAMAAAAQDKGV 540
 Qy 541 GPGAGPLELEGVKVPLEPGPKATEGGGEALPSGSECEVPLMGPPGGLQSPHAKPYI 598
 Db 541 GPGAGPLELEGVKVPLEPGPKATEGGGEALPSGSECEVPLMGPPGGLQSPHAKPYI 598

RESULT 8
 US-09-944-432-69
 ; Sequence 69, Application US/09944432
 ; Patent No. US20020142419A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Baker, Kevin
 ; APPLICANT: Botstein, David
 ; APPLICANT: Eaton, Dan
 ; APPLICANT: Ferrara, Napoleone
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Gerritsen, Mary
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul
 ; APPLICANT: Grimaldi, Christopher
 ; APPLICANT: Gurney, Austin
 ; APPLICANT: Hillan, Kenneth
 ; APPLICANT: Kljavin, Ivar
 ; APPLICANT: Napier, Mary
 ; APPLICANT: Roy, Margaret
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Wood, William
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
 ; FILE REFERENCE: P2548P1C1
 ; CURRENT APPLICATION NUMBER: US/09/944,432
 ; CURRENT FILING DATE: 2001-09-26
 ; PRIOR APPLICATION NUMBER: 09/866,028
 ; PRIOR FILING DATE: 2001-05-25
 ; PRIOR APPLICATION NUMBER: 60/067,411
 ; PRIOR FILING DATE: December 3, 1997
 ; PRIOR APPLICATION NUMBER: 60/069,334
 ; PRIOR FILING DATE: December 11, 1997
 ; PRIOR APPLICATION NUMBER: 60/069,335
 ; PRIOR FILING DATE: December 11, 1997
 ; PRIOR APPLICATION NUMBER: 60/069,278
 ; PRIOR FILING DATE: December 11, 1997
 ; PRIOR APPLICATION NUMBER: 60/069,425
 ; PRIOR FILING DATE: December 12, 1997
 ; PRIOR APPLICATION NUMBER: 60/069,696
 ; PRIOR FILING DATE: December 16, 1997
 ; PRIOR APPLICATION NUMBER: 60/069,694
 ; PRIOR FILING DATE: December 16, 1997
 ; PRIOR APPLICATION NUMBER: 60/069,702
 ; PRIOR FILING DATE: December 16, 1997
 ; PRIOR APPLICATION NUMBER: 60/069,870
 ; PRIOR FILING DATE: December 17, 1997
 ; PRIOR APPLICATION NUMBER: 60/069,873
 ; PRIOR FILING DATE: December 17, 1997
 ; PRIOR APPLICATION NUMBER: 60/068,017
 ; PRIOR FILING DATE: December 18, 1997
 ; PRIOR APPLICATION NUMBER: 60/070,440
 ; PRIOR FILING DATE: January 5, 1998
 ; PRIOR APPLICATION NUMBER: 60/074,086
 ; PRIOR FILING DATE: February 9, 1998
 ; PRIOR APPLICATION NUMBER: 60/074,092
 ; PRIOR FILING DATE: February 9, 1998
 ; PRIOR APPLICATION NUMBER: 60/075,945
 ; PRIOR FILING DATE: February 25, 1998
 ; PRIOR APPLICATION NUMBER: 60/112,850
 ; PRIOR FILING DATE: December 16, 1998

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; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US200020142419a1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US200020142419a1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 69
; LENGTH: 598
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-432-69

Query Match      100.0%; Score 3135; DB 9; Length 598;
Best Local Similarity 100.0%; Pred. No. 1.6e-194;
Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MCSRVPLLLPLLLLALGPGVCGPCGCGCQSQPQTVFCTARQGTTPVRDVPDPTVGLYVF 60
DB 1 MCSRVPLLLPLLLLALGPGVCGPCGCGCQSQPQTVFCTARQGTTPVRDVPDPTVGLYVF 60
QY 61 ENGITWLDASSFAGLPGQLDLSQNOIASRLPRLLLDLSHNSLLALEPGLDPTANVE 120
DB 61 ENGITWLDASSFAGLPGQLDLSQNOIASRLPRLLLDLSHNSLLALEPGLDPTANVE 120
QY 121 ALRLAGLGGQQLDEGLFSRLNLHDLVDSDNQLERVPVIRGLRGLTRLRAGNTRIAQL 180
DB 121 ALRLAGLGGQQLDEGLFSRLNLHDLVDSDNQLERVPVIRGLRGLTRLRAGNTRIAQL 180
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DB 181 RPEDLAGLAALQELDVSNLSQALPGDLSGLFPRLRLAARNPNCVCPISWFGFWRE 240
QY 241 SHVTLASPETRCHFPKKNAGRLLLLELDYADFQCPATTTTATVPTTRPVVRPTALSSSL 300
DB 241 SHVTLASPETRCHFPKKNAGRLLLLELDYADFQCPATTTTATVPTTRPVVRPTALSSSL 300

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QY 301 APTWLSPTAPATEAPSPSTADPTTVPVPQDQPPSTCLNGTCHLGRHLACLCPBG 360
DB 301 APTWLSPTAPATEAPSPSTADPTTVPVPQDQPPSTCLNGTCHLGRHLACLCPBG 360
QY 361 FTGLYCESQMGOGTRPSPTPTVTPRPSRLTGLIEPVSPSLVGLORYLQSSVQLRSUR 420
DB 361 FTGLYCESQMGOGTRPSPTPTVTPRPSRLTGLIEPVSPSLVGLORYLQSSVQLRSUR 420
QY 421 LTYRNLSGPDKRLVTLRLPASLAETVTTQLRFNATYSVCVMPPLGPGRVPEGEACGEAHT 480
DB 421 LTYRNLSGPDKRLVTLRLPASLAETVTTQLRFNATYSVCVMPPLGPGRVPEGEACGEAHT 480
QY 481 PPAVHSNHAPVTQAREGNLPLLIAPALAAVLAALAAVGAAYCVRGRMAAAQDKGV 540
DB 481 PPAVHSNHAPVTQAREGNLPLLIAPALAAVLAALAAVGAAYCVRGRMAAAQDKGV 540
QY 541 GPGAGPLELEGVKVPLEPGPKATEGGGEALPGSSECEVPLMGFPGLQSPHLHAKPYI 598
DB 541 GPGAGPLELEGVKVPLEPGPKATEGGGEALPGSSECEVPLMGFPGLQSPHLHAKPYI 598

RESULT 9
US-09-943-762-69
; Sequence 69, Application US/09943762
; Patent No. US20020142958A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Batton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/943,762
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998

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; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020142958A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020142958A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 69
; LENGTH: 598
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-943-762-69

Query Match 100.0%; Score 3135; DB 9; Length 598;
Best Local Similarity 100.0%; Pred. No. 1.6e-194;
Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MCSRVPLLLPLLLLLALGFGVQCPSGCQCSPQTVFCTARQGTTPRDVPPDTVGLYVF 60
Db 1 MCSRVPLLLPLLLLLALGFGVQCPSGCQCSPQTVFCTARQGTTPRDVPPDTVGLYVF 60

Qy 61 ENGTMLDASSFAGLPGLQLDLSONQIASRLPRLLLLDLSHNSLLALEPGILDVANVE 120
Db 61 ENGTMLDASSFAGLPGLQLDLSONQIASRLPRLLLLDLSHNSLLALEPGILDVANVE 120

Qy 121 ALRLAGLQLOLDEGLFSRLRLNHLDLVSDNQLERVPVIRGLRGLTRLRLAGNTRIAQL 180
Db 121 ALRLAGLQLOLDEGLFSRLRLNHLDLVSDNQLERVPVIRGLRGLTRLRLAGNTRIAQL 180

Qy 181 RPDLAGLAALQELDVSNLSIQALPGDLGSLGFLRLRLAARPNFNCVCLPSWFGPWVRE 240
Db 181 RPDLAGLAALQELDVSNLSIQALPGDLGSLGFLRLRLAARPNFNCVCLPSWFGPWVRE 240

Qy 241 SHVTLASPEETRCHFPFPKNAGRLLLELDYADFGCPATTTTATVPTTRPVVREPTALSSSL 300
Db 241 SHVTLASPEETRCHFPFPKNAGRLLLELDYADFGCPATTTTATVPTTRPVVREPTALSSSL 300

Qy 301 APTWLSPTAPATEAPSPSTAPPTVGVPOQDCPPSTCLNGGTCHLGRHHLACLCPGEG 360
Db 301 APTWLSPTAPATEAPSPSTAPPTVGVPOQDCPPSTCLNGGTCHLGRHHLACLCPGEG 360

Qy 361 FTGLYCESOMGQGTSPSTPTVTPRPRESLTGLIEPVSPTSIRVGLORYLOQSSVQLRSRLR 420
Db 361 FTGLYCESOMGQGTSPSTPTVTPRPRESLTGLIEPVSPTSIRVGLORYLOQSSVQLRSRLR 420

Qy 421 LTYRNLGGPDKRLVTLRLPASLAETVTLQRPNATYSVCMPLGPGRVPEGEACGEAHT 480
Db 421 LTYRNLGGPDKRLVTLRLPASLAETVTLQRPNATYSVCMPLGPGRVPEGEACGEAHT 480

Qy 481 PPAVHSNHAPVTOAREGNLPLLIAPALAAVLLAALAAVGAAYCVRRGRAMAAAQDKGV 540
Db 481 PPAVHSNHAPVTOAREGNLPLLIAPALAAVLLAALAAVGAAYCVRRGRAMAAAQDKGV 540

Qy 541 GPAGAPLELGGVKVPLEPGPKATEGGGEALPSGSECEVPLMGPPGPGLOSPHAKPYI 598
Db 541 GPAGAPLELGGVKVPLEPGPKATEGGGEALPSGSECEVPLMGPPGPGLOSPHAKPYI 598

RESULT 10
US-09-944-654-69
; Sequence 69, Application US/09944654
; Patent No. US20020142959A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Flivaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,654
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997

;; PRIOR APPLICATION NUMBER: 60/069,425
;; PRIOR FILING DATE: December 12, 1997
;; PRIOR APPLICATION NUMBER: 60/069,696
;; PRIOR FILING DATE: December 16, 1997
;; PRIOR APPLICATION NUMBER: 60/069,694
;; PRIOR FILING DATE: December 16, 1997
;; PRIOR APPLICATION NUMBER: 60/069,702
;; PRIOR FILING DATE: December 16, 1997
;; PRIOR APPLICATION NUMBER: 60/069,870
;; PRIOR FILING DATE: December 17, 1997
;; PRIOR APPLICATION NUMBER: 60/069,873
;; PRIOR FILING DATE: December 17, 1997
;; PRIOR APPLICATION NUMBER: 60/068,017
;; PRIOR FILING DATE: December 18, 1997
;; PRIOR APPLICATION NUMBER: 60/070,440
;; PRIOR FILING DATE: January 5, 1998
;; PRIOR APPLICATION NUMBER: 60/074,086
;; PRIOR FILING DATE: February 9, 1998
;; PRIOR APPLICATION NUMBER: 60/074,092
;; PRIOR FILING DATE: February 9, 1998
;; PRIOR APPLICATION NUMBER: 60/075,945
;; PRIOR FILING DATE: February 25, 1998
;; PRIOR APPLICATION NUMBER: 60/112,850
;; PRIOR FILING DATE: December 16, 1998
;; PRIOR APPLICATION NUMBER: 60/113,296
;; PRIOR FILING DATE: December 22, 1998
;; PRIOR APPLICATION NUMBER: 60/146,222
;; PRIOR FILING DATE: July 28, 1999
;; PRIOR APPLICATION NUMBER: PCT/US98/19330
;; PRIOR FILING DATE: September 16, 1998
;; PRIOR APPLICATION NUMBER: PCT/US98/25108
;; PRIOR FILING DATE: December 1, 1998
;; PRIOR APPLICATION NUMBER: 09/216,021
;; PRIOR FILING DATE: December 16, 1998
;; PRIOR APPLICATION NUMBER: 09/218,517
;; PRIOR FILING DATE: December 22, 1998
;; PRIOR APPLICATION NUMBER: 09/254,311
;; PRIOR FILING DATE: March 3, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/12252
;; PRIOR FILING DATE: June 22, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/21090
;; PRIOR FILING DATE: September 15, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28409
;; PRIOR FILING DATE: No. US20020150976A1ember 30, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28313
;; PRIOR FILING DATE: No. US20020150976A1ember 30, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28301
;; PRIOR FILING DATE: December 1, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/30095
;; PRIOR FILING DATE: December 16, 1999
;; PRIOR APPLICATION NUMBER: PCT/US00/03565
;; PRIOR FILING DATE: February 11, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/04414
;; PRIOR FILING DATE: February 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/05841
;; PRIOR FILING DATE: March 2, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/08439
;; PRIOR FILING DATE: March 30, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/14042
;; PRIOR FILING DATE: May 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/20710
;; PRIOR FILING DATE: July 28, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/32678
;; PRIOR FILING DATE: December 1, 2000
;; PRIOR APPLICATION NUMBER: PCT/US01/06520
;; PRIOR FILING DATE: February 28, 2001
;; NUMBER OF SEQ ID NOS: 120
;; SEQ ID NO 69
;; LENGTH: 598
;; TYPE: PRT
;; ORGANISM: Homo Sapien
US-09-943-851A-69

Query Match 100.0%; Score 3135; DB 9; Length 598;
Best Local Similarity 100.0%; Pred. No. 1.6e-194;
Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MCSRVPLLLPLLLLLALGPGVQCPCSGCQCSPQTVFCTARQGTTPRDPVPPDTVGLYVF 60
Db 1 MCSRVPLLLPLLLLLALGPGVQCPCSGCQCSPQTVFCTARQGTTPRDPVPPDTVGLYVF 60

Qy 61 ENGITMLDASSFAGLPGQLLDLSQNIASIRLPRLLLDLSHNSLLALPGLDITANVE 120
Db 61 ENGITMLDASSFAGLPGQLLDLSQNIASIRLPRLLLDLSHNSLLALPGLDITANVE 120

Qy 121 ALRLAGLQQLDEGLFSRLRNLDLSDNQLERVPVIRGLRGLRLRLAGNTRIAQL 180
Db 121 ALRLAGLQQLDEGLFSRLRNLDLSDNQLERVPVIRGLRGLRLRLAGNTRIAQL 180

Qy 181 RPEDLAGLAALQELDVSNLSIQALPGDLISGLFPRRLRLAAARNPFCVCLSWFPGWVRE 240
Db 181 RPEDLAGLAALQELDVSNLSIQALPGDLISGLFPRRLRLAAARNPFCVCLSWFPGWVRE 240

Qy 241 SHVTLASPEETRCHFFPKNAGRLLLELDYADFGCPATTTATVTPTRPVVREPTALSSSL 300
Db 241 SHVTLASPEETRCHFFPKNAGRLLLELDYADFGCPATTTATVTPTRPVVREPTALSSSL 300

Qy 301 APTWLSPTAPATEAPSPSTAPPTVGPVQPODCPPSTCLNGGTCHLGRHHLACLCEG 360
Db 301 APTWLSPTAPATEAPSPSTAPPTVGPVQPODCPPSTCLNGGTCHLGRHHLACLCEG 360

Qy 361 FTGLYCESQMGQGRPSPTPTVTPRPSRLTLGIEPVSPTSIRVGLQRYLQSSSVQLRSLR 420
Db 361 FTGLYCESQMGQGRPSPTPTVTPRPSRLTLGIEPVSPTSIRVGLQRYLQSSSVQLRSLR 420

Qy 421 LTVRNLSGPDKRLVTLRLPASLAETVTLQRPNATYSCVMPLGPRVPEGEACGGAHT 480
Db 421 LTVRNLSGPDKRLVTLRLPASLAETVTLQRPNATYSCVMPLGPRVPEGEACGGAHT 480

Qy 481 PPAVHNSHAPVTOAREGNLPLITAPALAAVLLAALAAVGAAYCVRGRMAAAADQGOV 540
Db 481 PPAVHNSHAPVTOAREGNLPLITAPALAAVLLAALAAVGAAYCVRGRMAAAADQGOV 540

Qy 541 GPGAGPLELEGVKVPLEPGPKATEGGGEALPSSGECEVPLMGFPGGLQSPHAKPYI 598
Db 541 GPGAGPLELEGVKVPLEPGPKATEGGGEALPSSGECEVPLMGFPGGLQSPHAKPYI 598

RESULT 12
US-09-944-413-69
; Sequence 69, Application US/09944413
; Patent No. US20020156004A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kijavini, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,413
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25

APPLICANT: Wood William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P2548P1C1
CURRENT APPLICATION NUMBER: US/09/944,403
PRIOR FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 09/866,028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/067,411
PRIOR FILING DATE: December 3, 1997
PRIOR APPLICATION NUMBER: 60/069,334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,335
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,278
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,425
PRIOR FILING DATE: December 12, 1997
PRIOR APPLICATION NUMBER: 60/069,696
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,694
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,702
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,870
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/069,873
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/068,017
PRIOR FILING DATE: December 18, 1997
PRIOR APPLICATION NUMBER: 60/070,440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074,086
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/074,092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075,945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112,850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113,296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146,222
PRIOR FILING DATE: July 28, 1999
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998
PRIOR APPLICATION NUMBER: 09/216,021
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/218,517
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 09/254,311
PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28409
PRIOR FILING DATE: No. US20020165143A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: No. US20020165143A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: December 16, 1999
PRIOR APPLICATION NUMBER: PCT/US00/03565
PRIOR FILING DATE: February 11, 2000
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08439

PRIOR FILING DATE: March 30, 2000
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/20710
PRIOR FILING DATE: July 28, 2000
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: December 1, 2000
PRIOR APPLICATION NUMBER: PCT/US01/06520
PRIOR FILING DATE: February 28, 2001
SEQ ID NO 69
LENGTH: 598
TYPE: PRT
ORGANISM: Homo Sapien
US-09-944-403-69
Query Match 100.0%; Score 3135; DB 9; Length 598;
Best Local Similarity 100.0%; Pred. No. 1.6e-194;
Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MCSRVPLLLPLLLLLALGPGVQCGPCGCGSQSQPQVCTARQGTTPRDPVPPDTVGLYVF 60
Db 1 MCSRVPLLLPLLLLLALGPGVQCGPCGCGSQSQPQVCTARQGTTPRDPVPPDTVGLYVF 60
Qy 61 ENGTMLDASSFAGLPGQLQLDLSONQIASLRLLLLDLSHNSLLALEPGLDTANVE 120
Db 61 ENGTMLDASSFAGLPGQLQLDLSONQIASLRLLLLDLSHNSLLALEPGLDTANVE 120
Qy 121 ALRLAGLQQLDEGLFSLRLNLHDLVSDNQLERVPVIRGLRGLTSLRLAGNTRIAQL 180
Db 121 ALRLAGLQQLDEGLFSLRLNLHDLVSDNQLERVPVIRGLRGLTSLRLAGNTRIAQL 180
Qy 181 RPEDLAGLAALQELDVSNLSIQALPGDLGSLFPRRLAALAAARNPFCVPLSWFGPWVRE 240
Db 181 RPEDLAGLAALQELDVSNLSIQALPGDLGSLFPRRLAALAAARNPFCVPLSWFGPWVRE 240
Qy 241 SHVTLASPEETRGCHFPKRNAGRLLELDYADFGCPATTTTATVTPTRPVVREPTALSSSL 300
Db 241 SHVTLASPEETRGCHFPKRNAGRLLELDYADFGCPATTTTATVTPTRPVVREPTALSSSL 300
Qy 301 APTWLSPTAPATEAPSPSTAPPTVGPVPOQDCPPSTCLNGGTCHLGRHHLACLCPGEG 360
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Qy 361 FTGLYCESQMGQGTTPSPPTVTPRPSRLTLGIEPVSFTSLRVGLORYLQSSVQLRSRLR 420
Db 361 FTGLYCESQMGQGTTPSPPTVTPRPSRLTLGIEPVSFTSLRVGLORYLQSSVQLRSRLR 420
Qy 421 LTYRNLSGDPDKRLVTLRLPASLAETVTLRPNATYSVCVMPGLGPRVPEGEACGEAHT 480
Db 421 LTYRNLSGDPDKRLVTLRLPASLAETVTLRPNATYSVCVMPGLGPRVPEGEACGEAHT 480
Qy 481 PPAVHNSHAPVTQAREGNLPLLIAPALAAVLLAALAAVGAAYCVRGRGMAAAQAQDKGV 540
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Qy 541 GPGAGPLELGVKVPLEPGPKATEGGGEALPSGSECEVPLMGFPGLQSLPHAKPYI 598
Db 541 GPGAGPLELGVKVPLEPGPKATEGGGEALPSGSECEVPLMGFPGLQSLPHAKPYI 598
RESULT 14
US-09-944-896-69
Sequence 69, Application US/09944896
Patent No. US20020168715A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Boctstein, David
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerritsen, Mary
APPLICANT: Goddard, Audrey

APPLICANT: Botstein, David
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerritsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kljavin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
TITLE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P2548P1C1
CURRENT APPLICATION NUMBER: US/09/944, 944
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 09/866, 028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/067, 411
PRIOR FILING DATE: December 3, 1997
PRIOR APPLICATION NUMBER: 60/069, 334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069, 335
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069, 278
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069, 425
PRIOR FILING DATE: December 12, 1997
PRIOR APPLICATION NUMBER: 60/069, 696
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069, 694
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069, 702
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069, 870
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/069, 873
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/068, 017
PRIOR FILING DATE: December 18, 1997
PRIOR APPLICATION NUMBER: 60/070, 440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074, 086
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/074, 092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075, 945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112, 850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113, 296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146, 222
PRIOR FILING DATE: July 28, 1999
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998
PRIOR APPLICATION NUMBER: 09/216, 021
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/218, 517
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 09/254, 311
PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28409

PRIOR FILING DATE: No. US20020173463A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: No. US20020173463A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: December 16, 1999
PRIOR APPLICATION NUMBER: PCT/US00/03565
PRIOR FILING DATE: February 11, 2000
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08439
PRIOR FILING DATE: March 30, 2000
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/20710
PRIOR FILING DATE: July 28, 2000
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: December 1, 2000
PRIOR APPLICATION NUMBER: PCT/US01/06520
PRIOR FILING DATE: February 28, 2001
NUMBER OF SEQ ID NOS: 120
SEQ ID NO 69
LENGTH: 598
TYPE: PRT
ORGANISM: Homo Sapien
US-09-944-944-69
Query Match 100.0%; Score 3135; DB 94; Length 598;
Best Local Similarity 100.0%; Pred. No. 1.6e-194; Indels 0; Gaps 0;
Matches 598; Conservative 0; Mismatches 0;
Qy 1 MCSRVPLLLPLLLALLGPGVQGCPCSCQCSQCPQTVFCTARQGTTPRDPVDPDTVGLYVF 60
Db 1 MCSRVPLLLPLLLALLGPGVQGCPCSCQCSQCPQTVFCTARQGTTPRDPVDPDTVGLYVF 60
Qy 61 ENGITMIDASSFAGLPGQLLDLSQNIASIRLPRLLLDLSHNSLLALPEGILDANVE 120
Db 61 ENGITMIDASSFAGLPGQLLDLSQNIASIRLPRLLLDLSHNSLLALPEGILDANVE 120
Qy 121 ALRLAGLQQLDEGLFSLRNLDLSDNQLERVPVIRGLTRLAGNTRIAQL 180
Db 121 ALRLAGLQQLDEGLFSLRNLDLSDNQLERVPVIRGLTRLAGNTRIAQL 180
Qy 181 RPEDLAGLAALQELDVNSLSIQALPGDLGSLFPRLLRLAAARNPFCVPLSWFGPWVRE 240
Db 181 RPEDLAGLAALQELDVNSLSIQALPGDLGSLFPRLLRLAAARNPFCVPLSWFGPWVRE 240
Qy 241 SHVTLASPEETRCHFPKPNAGRLLLELDYADFQCPATTTTATVTPTRPVVREPTALSSSL 300
Db 241 SHVTLASPEETRCHFPKPNAGRLLLELDYADFQCPATTTTATVTPTRPVVREPTALSSSL 300
Qy 301 APTWLSPTAPATEAPSPSTAPPTVGVPOQDCPSTCLNGGTCHLGTRHHLACLCEPG 360
Db 301 APTWLSPTAPATEAPSPSTAPPTVGVPOQDCPSTCLNGGTCHLGTRHHLACLCEPG 360
Qy 361 FTGLYCESQMGQGTTPSPPTVTPRPSRLTLIGIPVSPSTSLRVGLQRYLQSSVQLRSRL 420
Db 361 FTGLYCESQMGQGTTPSPPTVTPRPSRLTLIGIPVSPSTSLRVGLQRYLQSSVQLRSRL 420
Qy 421 LTYRNLSGPDKRLVTLRLPASLABYTVTLRPNATYSVCVMPLGPGRVPEGEACGEAHT 480
Db 421 LTYRNLSGPDKRLVTLRLPASLABYTVTLRPNATYSVCVMPLGPGRVPEGEACGEAHT 480
Qy 481 PPAVSHNHPVTOAREGNLPLLIAPALAAVLLAALAAVGAAYCVRGRAMAQAQDKQV 540
Db 481 PPAVSHNHPVTOAREGNLPLLIAPALAAVLLAALAAVGAAYCVRGRAMAQAQDKQV 540
Qy 541 GPGAGPLEEGVKVPLEFPGPKATEGGCEALFSGSECEVPLMGFPGLQSPHAKPYI 598
Db 541 GPGAGPLEEGVKVPLEFPGPKATEGGCEALFSGSECEVPLMGFPGLQSPHAKPYI 598

Search completed: May 12, 2005, 19:24:23
Job time : 181 secs

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OM protein - protein search, using sw model

Run on: May 12, 2005, 19:00:35 ; Search time 42 Seconds
(without alignments)
1369.943 Million cell updates/sec

Title: US-09-943-780-69

Perfect score: 3135

Sequence: 1 MCSRVPLLLPLLLLLALGPG.....PLMGFPGLQSLHAKPYI 598

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1500 summaries

Database : PIR 79:**

1: piri:**

2: piri:**

3: piri:**

4: piri:**

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	322	10.3	605	2 JCS239	insulin-like growt
2	302	9.6	605	2 A41915	insulin-like growt
3	282	9.0	626	1 NBHUIA	platelet glycoprot
4	281.5	9.0	603	2 JCS128	insulin-like growt
5	278.5	8.9	603	2 JCS128	insulin-like growt
6	278	8.9	1531	2 T42218	slit-1 protein hom
7	264.5	8.4	420	2 A53531	oncofetal trophobl
8	261	8.3	1523	2 T13953	MEGF5 protein - ra
9	255.5	8.1	1469	2 B36665	slit protein 2 pre
10	255.5	8.1	1480	2 A36665	slit protein 1 pre
11	251	8.0	622	2 JCS973	synleurin - huma
12	243.5	7.8	312	1 NBHUA2	leucine-rich alpha
13	240	7.7	560	2 A60164	platelet membrane
14	237	7.6	707	2 JCS763	neutonal leucine-r
15	231	7.4	1025	2 T42626	secreted leucine-r
16	222.5	7.1	536	2 A34901	lysine carboxypept
17	214.5	6.8	1535	2 S46224	peroxidasin - fru
18	212.5	6.8	361	2 A53860	chondroadherin pre
19	210.5	6.7	4302	2 A38971	polycystic kidney
20	209	6.7	1091	2 A58532	glial cell membran
21	208.5	6.7	382	2 I39068	proline-arginine-
22	200	6.4	653	2 T25194	hypothetical prote
23	199	6.3	1328	2 T23007	hypothetical prote
24	194.5	6.2	789	2 T28714	hypothetical prote
25	194.5	6.2	1355	2 T28715	hypothetical prote
26	193.5	6.2	421	2 T46266	hypothetical prote
27	193.5	6.2	721	2 E70766	hypothetical prote
28	192.5	6.1	575	2 T29972	hypothetical prote
29	189	6.0	369	2 S20811	proteoglycan I - m

30	189	6.0	369	2	S32793	biglycan precursor
31	189	6.0	839	2	T04859	extensin homolog F
32	188.5	6.0	440	2	A47530	oligodendrocyte-my
33	186	5.9	440	2	A39613	oligodendrocyte-my
34	184	5.9	368	1	BGHUN	biglycan precursor
35	183	5.8	662	2	S42799	garp precursor - h
36	182	5.8	369	2	S32559	biglycan precursor
37	181.5	5.8	357	2	S24317	decorin precursor
38	177.5	5.7	2493	2	A55481	adenylate cyclase
39	176.5	5.6	1495	2	T31434	densin-180 - rat
40	175	5.6	343	2	A41748	lumican precursor
41	173	5.5	925	2	JC2033	G protein-coupled
42	172.5	5.5	359	1	NBHUC8	decorin precursor
43	172	5.5	1134	2	T04587	hypothetical prote
44	170.5	5.4	2145	2	JC4747	adenylate cyclase
45	170	5.4	907	2	JE0176	orphan G protein-c
46	169.5	5.4	760	2	T06291	extensin homolog T
47	169	5.4	354	2	A55454	decorin precursor
48	169	5.4	839	2	F75518	hypothetical prote
49	168.5	5.4	907	2	JG0193	G protein-coupled
50	167	5.3	800	2	S37387	internalin A precu
51	167	5.3	1112	2	T10504	disease resistance
52	166.5	5.3	549	2	T41744	hypothetical prote
53	166.5	5.3	800	2	AB1129	internalin A limpo
54	165.5	5.3	360	2	S06280	decorin precursor
55	165.5	5.3	526	2	S84552	hypothetical prote
56	165.5	5.3	1256	2	S60461	gene flightless-I
57	165.5	5.3	1268	2	A49674	flightless-I homol
58	165	5.3	994	2	H96510	probable disease r
59	163.5	5.2	786	2	T01456	extensin homolog F
60	162	5.2	242	2	T14791	hypothetical prote
61	161	5.1	559	2	T42998	Ras-binding protei
62	161	5.1	682	2	A49121	cell-surface molec
63	161	5.1	682	2	A43318	connectin precurs
64	160.5	5.1	2910	2	T42214	otogelin - mouse
65	160	5.1	744	2	E86255	hypothetical prote
66	159.5	5.1	1112	2	T00952	hypothetical prote
67	159	5.1	572	2	T30947	protein AC7.2 limp
68	159	5.1	613	2	A88684	hypothetical prote
69	159	5.1	702	2	T21148	hypothetical prote
70	159	5.1	1119	2	AD1822	leucine-rich-repea
71	158.5	5.1	738	2	T19938	hypothetical prote
72	158	5.0	1066	2	T15864	hypothetical prote
73	158	5.0	3570	2	T45025	mucin MUC5B, trach
74	156.5	5.0	360	2	I47020	decorin - rabbit
75	156.5	5.0	980	2	H84632	probable receptor-
76	156	5.0	354	2	S29145	decorin precursor
77	156	5.0	594	2	T23841	hypothetical prote
78	155.5	5.0	903	2	T00705	N-chimerin homolog
79	155.5	5.0	1334	2	T50568	probable multi-dom
80	155	4.9	961	2	T23395	hypothetical prote
81	154.5	4.9	1013	2	T10659	probable serine/th
82	154.5	4.9	1143	2	T10636	hypothetical prote
83	154.5	4.9	1192	2	T48499	receptor-like prot
84	154.5	4.9	1495	2	S60255	transcription co-r
85	153.5	4.9	864	2	T08575	protein kinase hom
86	153.5	4.9	894	1	A41527	protein-tyrosine k
87	153	4.9	699	2	C43674	US4 protein - huma
88	152	4.8	786	2	T08664	Toll protein-like
89	151.5	4.8	695	1	JN0898	folliotropin recept
90	151	4.8	540	2	T12704	leucine-rich prote
91	151	4.8	1389	2	T13852	gene wheeler prote
92	150.5	4.8	695	1	QRHUF	folliotropin recept
93	150.5	4.8	1109	2	T18536	receptor-like prot
94	150	4.8	1134	1	A29944	chaoptin precursor
95	149.5	4.8	224	2	T32185	hypothetical prote
96	149.5	4.8	696	2	JC7361	folliotropin recept
97	149	4.8	1025	1	A57676	protein kinase Xa2
98	149	4.8	1143	2	B84431	probable receptor
99	149	4.8	2357	2	A59249	class VII unconven
100	148.5	4.7	375	2	S05390	fibromodulin precu
101	148.5	4.7	610	2	T23836	hypothetical prote
102	148.5	4.7	680	2	T19939	hypothetical prote

103	148.5	4.7	890	2	C96654	hypothetical prote	176	136	4.3	4957	2	T03455	ALR protein - huma
104	148.5	4.7	964	2	T49038	hypothetical prote	177	135.5	4.3	427	2	JC4915	ags protein precu
105	148.5	4.7	1115	2	S40241	G protein-coupled	178	135.5	4.3	499	2	D83333	hypothetical prote
106	148	4.7	338	2	S52284	lumicon, secretory	179	135.5	4.3	1124	2	B84742	probable receptor-
107	148	4.7	1188	2	S49915	extensin-like prot	180	135.5	4.3	5262	2	T03454	ALR protein - huma
108	147.5	4.7	316	2	A41781	proteoglycan-Lb -	181	135	4.3	601	2	S56144	SH3 domain binding
109	147.5	4.7	1385	2	T13887	tlr protein - frui	182	134.5	4.3	613	2	T15489	hypothetical prote
110	147	4.7	1964	2	T09059	norch4 - mouse	183	134.5	4.3	847	2	F96531	hypothetical prote
111	147	4.7	2414	2	A54277	transcription adap	184	134.5	4.3	1039	2	T22117	hypothetical prote
112	146.5	4.7	382	2	T04260	hypothetical prote	185	134	4.3	530	2	A45690	transactivator BBN
113	146.5	4.7	925	2	C94538	probable LRR recep	186	134	4.3	656	2	B47096	hyLB homolog - Str
114	146.5	4.7	1408	2	S16148	gene serrate prote	187	134	4.3	886	2	T40734	probable adenylate
115	146	4.7	369	2	G83434	translocation prot	188	133.5	4.3	277	2	S25770	RSP-1 protein - mo
116	145.5	4.6	380	2	S71876	fibromodulin - chi	189	133.5	4.3	384	2	A41710	promastigote surfa
117	145.5	4.6	886	2	S29605	glycoprotein 350/2	190	133.5	4.3	1068	2	H96769	hypothetical prote
118	145.5	4.6	2142	2	B35098	MHC class III hist	191	133	4.2	576	2	T36729	probable serine/th
119	145	4.6	458	2	T19941	hypothetical prote	192	133	4.2	852	2	I51259	tyrosine kinase C
120	145	4.6	679	2	T20713	hypothetical prote	193	133	4.2	932	2	T48489	receptor-like prot
121	145	4.6	694	2	JC2327	folliotropin recept	194	133	4.2	1257	2	A88536	protein B0523.5 li
122	145	4.6	1839	1	OVBK	adenylate cyclase	195	133	4.2	4391	2	A38096	perlecan precursor
123	144.5	4.6	486	2	B86460	hypothetical prote	196	132.5	4.2	463	1	A36479	milk fat globule m
124	144.5	4.6	2187	2	T30826	nascent polypeptid	197	132.5	4.2	2035	2	A40718	host cell factor C
125	144.5	4.6	3149	1	Q0BE8	BPLF1 protein - hu	198	132	4.2	3164	1	WMBEH6	UR36 protein - hum
126	144	4.6	695	2	I45896	follicle stimulati	199	131.5	4.2	346	2	T46916	hypothetical prote
127	144	4.6	1019	2	C96519	probable disease r	200	131.5	4.2	890	2	T00800	disease resistance
128	144	4.6	2020	2	A43932	mucin 2 precursor,	201	131.5	4.2	1097	2	A29943	Toll protein precu
129	143.5	4.6	243	2	B41710	promastigote surfa	202	131.5	4.2	1286	2	A88396	protein W01E10.2 [
130	143.5	4.6	476	2	T27051	hypothetical prote	203	131	4.2	612	2	T10727	protein kinase Xa2
131	143.5	4.6	496	2	C96832	hypothetical prote	204	131	4.2	767	2	B84594	probable LRR recep
132	143.5	4.6	605	2	T50817	protein serine/thr	205	131	4.2	905	2	T00475	probable disease r
133	143.5	4.6	683	2	T24486	hypothetical prote	206	131	4.2	915	2	T09575	smoothelin - human
134	142.5	4.5	1870	2	S37671	MHC class III hist	207	131	4.2	1095	2	G96746	hypothetical prote
135	142.5	4.5	1872	2	S36152	MHC class III hist	208	131	4.2	1196	2	T09356	brassinosteroid-in
136	142	4.5	661	2	I56258	RP105 - mouse	209	130.5	4.2	448	2	T27395	hypothetical prote
137	142	4.5	983	2	G84524	probable disease r	210	130	4.1	268	2	T19697	hypothetical prote
138	141.5	4.5	462	2	D84858	hypothetical prote	211	130	4.1	389	2	H86266	hypothetical prote
139	141.5	4.5	836	2	T46070	hypothetical prote	212	130	4.1	395	2	H75457	hypothetical prote
140	141.5	4.5	1029	2	T05050	protein kinase hom	213	130	4.1	768	2	T17462	disease resistance
141	141.5	4.5	1051	2	T13174	gp150 protein - fr	214	130	4.1	800	2	H84740	hypothetical prote
142	141	4.5	630	2	A41129	internalin B [impo	215	129.5	4.1	315	2	T06806	proline rich prote
143	141	4.5	717	2	S32295	hypothetical prote	216	129.5	4.1	780	2	T00366	hypothetical prote
144	140.5	4.5	376	2	T52257	fibromodulin precu	217	129.5	4.1	861	2	A48825	Notch homolog Motc
145	140	4.5	277	2	I60122	rsu-1 homolog - hu	218	129.5	4.1	912	2	A54423	brevican precursor
146	140	4.5	474	2	S85763	chitinase (EC 3.2.	219	129.5	4.1	942	2	S23251	protein-tyrosine k
147	140	4.5	754	2	A85043	probable LRR recep	220	129.5	4.1	1173	2	I50620	proCK2 - chicken
148	140	4.5	1029	2	T00712	protein kinase hom	221	129.5	4.1	1469	2	T09219	basal transcriptio
149	139.5	4.4	333	2	T34555	hypothetical prote	222	129	4.1	371	2	S20075	promastigote surfa
150	139.5	4.4	527	2	A75399	hypothetical prote	223	129	4.1	835	2	T05259	probable disease r
151	139.5	4.4	539	2	G70520	probable csp prote	224	129	4.1	910	2	B96770	hypothetical prote
152	139.5	4.4	4351	2	T00252	MEGF1 protein - ra	225	129	4.1	1027	2	B85089	receptor protein k
153	139	4.4	581	2	A45551	insect-stage-speci	226	129	4.1	1064	2	B86455	probable Protein k
154	139	4.4	603	2	T24315	hypothetical prote	227	129	4.1	1232	2	T05322	hypothetical prote
155	139	4.4	720	2	T02361	hypothetical prote	228	129	4.1	1329	2	A64828	cell division prot
156	139	4.4	1088	2	E86312	FilA6.9 protein -	229	129	4.1	1342	2	B85614	cell division prot
157	139	4.4	2240	2	T37057	probable multi-dom	230	129	4.1	1342	2	G90750	cell division prot
158	138.5	4.4	342	2	A46743	lumican precursor	231	129	4.1	1959	1	AGRT	agrin - rat
159	138.5	4.4	990	2	T14756	hypothetical prote	232	129	4.1	2321	2	S78549	noch3 protein - h
160	138.5	4.4	1650	2	S53457	dominant autoantig	233	128.5	4.1	487	2	S42442	nuclear protein EB
161	138	4.4	630	2	C39930	hypothetical prote	234	128.5	4.1	677	2	H86208	protein F22G5.26 [
162	138	4.4	858	2	T00258	hypothetical prote	235	128.5	4.1	727	2	C84534	hypothetical prote
163	138	4.4	1952	2	T48814	hypothetical prote	236	128.5	4.1	744	2	C84537	probable receptor-
164	137.5	4.4	1151	2	T18535	high molecular mas	237	128.5	4.1	825	2	T29634	hypothetical prote
165	137.5	4.4	4660	2	T42737	gp330 protein prec	238	128.5	4.1	1113	2	T00271	hypothetical prote
166	137	4.4	562	2	T34319	hypothetical prote	239	128.5	4.1	3968	2	A44265	trithorax homolog
167	137	4.4	695	2	JC1493	folliotropin recept	240	128	4.1	597	2	S72468	probable transcrip
168	137	4.4	788	2	AG0786	secreted effector	241	128	4.1	967	2	T48210	hypothetical prote
169	137	4.4	907	1	Q0BE21	membrane antigen g	242	128	4.1	1428	2	T08852	lustrin A - Califo
170	137	4.4	4544	1	S02392	alpha-2-macroglobu	243	128	4.1	1914	2	T42635	tenascin Y precurs
171	137	4.4	4545	1	S25111	alpha-2-macroglobu	244	127.5	4.1	750	2	D86245	hypothetical prote
172	136	4.3	322	2	S72271	proteoglycan lb pr	245	127.5	4.1	1120	2	B86479	hypothetical prote
173	136	4.3	626	2	AE0123	probable antigenic	246	127.5	4.1	1784	2	C96615	hypothetical prote
174	136	4.3	692	2	A34548	folliotropin recept	247	127	4.1	327	2	S20074	promastigote surfa
175	136	4.3	1008	2	D84434	probable receptor-	248	127	4.1	773	2	T00502	probable receptor-

249	127	4.1	775	1	EDBE11	immediate-early pr	322	121.5	3.9	432	2	E96712	unknown protein, 6
250	127	4.1	800	2	G84740	hypothetical prote	323	121.5	3.9	519	2	T07026	ethylene receptor
251	127	4.1	1366	2	T35985	probable large pro	324	121.5	3.9	635	2	T07794	ethylene receptor
252	127	4.1	1895	2	T06609	disease resistance	325	121.5	3.9	686	2	JC7569	Delta-4 protein -
253	137	4.1	1955	1	AGCH	agrin precursor -	326	121.5	3.9	760	2	F86387	probable Pto kinas
254	126.5	4.0	368	2	T45616	hypothetical prote	327	121.5	3.9	902	2	T00588	hypothetical prote
255	126.5	4.0	685	2	JC7570	Delta-4 protein -	328	121.5	3.9	1251	2	A57293	latent transformin
256	126.5	4.0	694	2	JC4301	folitropin recept	329	121.5	3.9	1409	2	T37188	presynaptic activi
257	126.5	4.0	862	2	T46289	hypothetical prote	330	121.5	3.9	2265	1	FNBO	fibronectin - bovi
258	126.5	4.0	999	1	S27756	receptor-like prot	331	121.5	3.9	2297	2	T34918	polyketide synthas
259	126.5	4.0	1091	2	S33596	protein-tyrosine k	332	121.5	3.9	2318	2	S45306	notch 3 protein -
260	126.5	4.0	1777	2	T34369	hypothetical prote	333	121.5	3.9	3530	2	A59266	unconventional myo
261	126	4.0	500	2	S49302	AWJL218 protein -	334	121	3.9	306	2	T52340	cell wall-plasma m
262	126	4.0	865	2	A47282	calcium-binding pr	335	121	3.9	480	2	T00971	probable disease r
263	126	4.0	873	2	A47283	calphotin - fruit	336	121	3.9	485	2	A33647	sulfated surface g
264	126	4.0	996	2	F86410	protein F3M18.12 (	337	121	3.9	733	2	A45301	microtubule-associ
265	126	4.0	1152	2	T31911	hypothetical prote	338	121	3.9	1203	2	A49175	Motch B protein -
266	126	4.0	1820	2	A55494	latent transformin	339	121	3.9	1520	2	T00273	hypothetical prote
267	125.5	4.0	283	2	S13383	hydroxyproline-ric	340	121	3.9	2331	2	S18188	notch protein homo
268	125.5	4.0	548	2	AH1107	internalin H (limpo	341	120.5	3.8	299	2	A35272	osteoinductive fac
269	125.5	4.0	635	2	F75477	hypothetical prote	342	120.5	3.8	753	2	JQ0532	OP protein - Kenne
270	125.5	4.0	764	2	A40077	thytotropin recept	343	120.5	3.8	821	2	AB1126	internalin, peptid
271	125.5	4.0	1003	2	T05898	hypothetical prote	344	120.5	3.8	855	2	T17460	disease resistance
272	125	4.0	350	2	S22456	hydroxyproline-ric	345	120.5	3.8	976	2	T05897	probable kinase hom
273	125	4.0	476	2	A36478	surface glycoprote	346	120.5	3.8	976	2	B84659	probable receptor-
274	125	4.0	783	2	T45899	receptor protein k	347	120.5	3.8	981	2	T50851	receptor protein k
275	125	4.0	818	2	F96586	hypothetical prote	348	120.5	3.8	987	2	T50850	receptor protein k
276	125	4.0	991	2	T52400	receptor-like prot	349	120.5	3.8	1118	2	A48292	microtubule-associ
277	125	4.0	1504	2	T49896	glycine/proline-ri	350	120.5	3.8	1152	2	A31183	protein Fl1C7.4 [i
278	125	4.0	2026	1	OYBX	adenylate cyclase	351	120.5	3.8	1722	2	E89753	protein Fl1C7.4 [i
279	124.5	4.0	298	2	B32742	osteoinductive fac	352	120.5	3.8	1778	2	AF1116	internalin protein
280	124.5	4.0	756	2	T27642	hypothetical prote	353	120.5	3.8	3566	1	A40701	tenascin-X precurs
281	124.5	4.0	849	2	C97303	hypothetical prote	354	120	3.8	361	2	AH1469	internalin protein
282	124.5	4.0	910	2	G84648	probable disease r	355	120	3.8	376	2	S71558	probable cell wall
283	124.5	4.0	977	2	C96745	hypothetical prote	356	120	3.8	458	2	T31631	hypothetical prote
284	124.5	4.0	1223	2	E88451	protein K10D2.1 [i	357	120	3.8	892	2	T09071	SH3 domains-contai
285	124.5	4.0	2176	2	T13806	toucan gene protei	358	120	3.8	962	2	T04124	receptor-like proc
286	124	4.0	496	2	D75261	conserved hypotet	359	120	3.8	1126	2	T20801	hypothetical prote
287	124	4.0	543	2	S35047	mucin JUL7 - human	360	120	3.8	1224	2	T40765	web1 protein homol
288	124	4.0	574	2	T43556	Wiskott-Aldrich sy	361	119.5	3.8	267	2	S08314	cell wall glycopro
289	124	4.0	605	2	AG0123	probable antigenic	362	119.5	3.8	479	1	A31753	transcription fact
290	124	4.0	729	2	E70803	hypothetical prote	363	119.5	3.8	660	2	T45569	receptor protein k
291	124	4.0	766	2	B85440	receptor kinase-li	364	119.5	3.8	1048	1	XPBEA9	large structural p
292	124	4.0	978	2	E96787	protein T4Q12.5 [i	365	119.5	3.8	1079	2	C96772	probable receptor
293	124	4.0	1011	2	T45718	receptor-kinase li	366	119.5	3.8	1166	2	F96598	protein F2QW2.4 [i
294	124	4.0	1472	2	B54774	ATP binding cassel	367	119.5	3.8	1400	2	B70963	hypothetical prote
295	124	4.0	4135	2	T42629	tenascin-X - bovin	368	119.5	3.8	1596	2	A35927	190K DNA-binding p
296	123.5	3.9	380	2	T01281	probable leucine-r	369	119.5	3.8	1643	2	T14274	versican precursor
297	123.5	3.9	492	2	F86263	hypothetical prote	370	119	3.8	164	2	IS3641	mucin SAC - human
298	123.5	3.9	656	2	AE1479	probable cell surf	371	119	3.8	352	2	S49299	AWJL172 protein -
299	123.5	3.9	690	2	T41296	probable alcohol d	372	119	3.8	424	2	S27783	hypothetical prote
300	123	3.9	528	2	T15198	hypothetical prote	373	119	3.8	550	2	C75557	hypothetical prote
301	123	3.9	574	2	T38819	wiskott-aldrich sy	374	119	3.8	651	2	T42644	hypothetical prote
302	123	3.9	888	2	S23065	ufo protein - mous	375	119	3.8	660	1	Q08E3	BHLFI protein - hu
303	123	3.9	1072	2	A37127	microtubule-associ	376	119	3.8	808	2	D84740	hypothetical prote
304	123	3.9	2591	2	T30288	pristinamycin I sy	377	119	3.8	864	2	T23129	hypothetical prote
305	122.5	3.9	303	2	S28264	hydroxyproline-ric	378	119	3.8	1006	2	T42731	atrophin-1 related
306	122.5	3.9	415	2	T13435	hypothetical prote	379	119	3.8	1045	2	T41119	internalin- relate
307	122.5	3.9	592	2	D70863	hypothetical prote	380	118.5	3.8	222	2	H96711	hypothetical prote
308	122.5	3.9	699	2	T05225	extensin homolog F	381	118.5	3.8	400	1	A39822	leukostialin precu
309	122.5	3.9	809	2	B84634	probable receptor-	382	118.5	3.8	677	2	E30722	hypothetical prote
310	122.5	3.9	845	2	T12537	hypothetical prote	383	118.5	3.8	751	2	AC2098	hypothetical prote
311	122.5	3.9	1016	2	T30553	disease resistance	384	118.5	3.8	869	2	A71400	probable disease r
312	122.5	3.9	2944	2	A54849	collagen alpha 1(V	385	118.5	3.8	883	2	S57653	brevican precursor
313	122	3.9	298	2	JC4130	ostecglycin precu	386	118.5	3.8	988	2	T45717	receptor-kinase li
314	122	3.9	326	2	T24722	hypothetical prote	387	118.5	3.8	1173	2	T52893	hypothetical prote
315	122	3.9	596	2	AE1515	internalin like pr	388	118.5	3.8	1356	2	A45445	janusin precursor,
316	122	3.9	623	2	T19876	hypothetical prote	389	118.5	3.8	1607	2	T02837	long chain fatty a
317	122	3.9	672	2	B84782	probable receptor-	390	118	3.8	294	2	A37232	mucin, tracheal (A
318	122	3.9	715	2	G86239	protein F2QW2.4 [i	391	118	3.8	599	2	T10798	phorophorin-S - Vo
319	122	3.9	727	2	T47727	hypothetical prote	392	118	3.8	667	2	S74254	homeotic protein s
320	122	3.9	921	2	B86234	hypothetical prote	393	118	3.8	823	2	AD1935	general secretion
321	122	3.9	992	2	T05335	hypothetical prote	394	118	3.8	1134	1	JN0711	protein-tyrosine k

395	118	3.8	2471	2	A49128	cell-fate determin	468	114	3.6	378	2	S00842	leukosialin precu
396	117.5	3.7	473	2	D85041	hypothetical prote	469	114	3.6	413	1	A34888	transcription fact
397	117.5	3.7	624	2	A55576	collagen alpha 2(X	470	114	3.6	555	1	S20100	mullerian inhibi
398	117.5	3.7	660	2	JW0067	chitinase (EC 3.2.	471	114	3.6	586	2	T29695	hypothetical prote
399	117.5	3.7	996	2	T10758	protein kinase Xa2	472	114	3.6	633	2	S62057	proline-rich prote
400	117.5	3.7	1075	2	D70568	hypothetical prote	473	114	3.6	634	2	T00388	hypothetical prote
401	117.5	3.7	1706	2	I84499	zinc finger protei	474	114	3.6	656	2	E75468	hypothetical prote
402	117	3.7	431	2	T27904	hypothetical prote	475	114	3.6	768	2	A42755	P-selectin precurs
403	117	3.7	655	1	A46688	hepatocyte growth	476	114	3.6	1290	2	T00018	period protein hom
404	117	3.7	670	2	H96707	probable receptor	477	114	3.6	2225	2	T26063	hypothetical prote
405	117	3.7	678	2	JC4245	transcription fact	478	113.5	3.6	317	2	S55316	mucin (Clone PGM-2
406	117	3.7	743	2	C84633	probable disease r	479	113.5	3.6	330	2	T46256	brevican - human (
407	117	3.7	801	2	T29018	hypothetical prote	480	113.5	3.6	538	2	T01102	disease resistance
408	117	3.7	1007	2	C84668	probable receptor	481	113.5	3.6	896	2	E43817	transforming prote
409	117	3.7	1039	2	D75399	probable penicilli	482	113.5	3.6	907	2	A86460	99.9K hypothetical
410	117	3.7	1328	2	T43060	agrin - electric r	483	113.5	3.6	938	1	Q08E24	nuclear antigen EB
411	117	3.7	1450	2	T130273	hypothetical prote	484	113.5	3.6	1286	2	T33476	hypothetical prote
412	117	3.7	1574	2	T13954	MEGF6 protein - ra	485	113.5	3.6	1907	2	S50893	protein-tyrosine-p
413	117	3.7	2082	2	T37056	probable multi-dom	486	113.5	3.6	2911	2	T20566	hypothetical prote
414	117	3.7	2232	2	T34434	hypothetical prote	487	113	3.6	371	2	T49908	hypothetical prote
415	116.5	3.7	279	2	S53363	mucin 5AC (Clone J	488	113	3.6	377	2	A48018	mucin 7 precursor,
416	116.5	3.7	439	2	S19139	chitinase (EC 3.2.	489	113	3.6	382	2	E84527	hypothetical prote
417	116.5	3.7	621	2	I38467	low density lipopr	490	113	3.6	419	2	A90888	hypothetical prote
418	116.5	3.7	787	2	T27632	hypothetical prote	491	113	3.6	419	2	H85729	hypothetical prote
419	116.5	3.7	794	2	T27633	hypothetical prote	492	113	3.6	603	2	A75373	probable N-acetyl
420	116.5	3.7	828	2	A88860	protein 2C518.3 (i	493	113	3.6	979	2	A35913	regulatory factor
421	116.5	3.7	1048	2	T31425	C-terminal domain-	494	113	3.6	982	2	A53253	microtubule-associ
422	116.5	3.7	1446	1	A45344	immediate-early pr	495	113	3.6	1002	2	T46033	receptor protein k
423	116.5	3.7	2229	2	T16199	hypothetical prote	496	113	3.6	1025	2	T45647	receptor protein k
424	116	3.7	292	2	S24169	mucin - rat	497	113	3.6	1069	2	S27922	nuclear antigen EB
425	116	3.7	652	2	S71753	repellent protein	498	113	3.6	1247	2	T42209	neural plakophilin
426	116	3.7	660	2	A82348	hypothetical prote	499	113	3.6	1343	2	AF0611	cell division prot
427	116	3.7	729	2	F86308	Similar to disease	500	113	3.6	2688	2	T49477	alpha-A-crystallin
428	116	3.7	771	2	T02565	disease resistance	501	113	3.6	3381	2	T42389	versican precursor
429	116	3.7	808	2	B97303	hypothetical prote	502	112.5	3.6	347	2	S10571	mucin 1 precursor,
430	116	3.7	845	2	T07039	Hcr-0 protein - t	503	112.5	3.6	581	2	G96811	unknown protein T1
431	116	3.7	907	2	A24938	hypothetical T2 pr	504	112.5	3.6	731	2	B86369	hypothetical prote
432	116	3.7	1291	2	T00019	period protein hom	505	112.5	3.6	1075	2	A57377	transcription fact
433	116	3.7	1494	2	T14355	protein-tyrosine-p	506	112.5	3.6	1237	2	AC1583	internalin protein
434	116	3.7	1840	2	T30250	GPI protein - mous	507	112.5	3.6	1680	2	T01367	hypothetical prote
435	116	3.7	2531	2	A46019	notch-1 protein -	508	112.5	3.6	2479	2	F87386	conserved hypothet
436	116	3.7	2555	2	A40043	mucin - protein -	509	112.5	3.6	4006	2	T09070	probable tenascin
437	116	3.7	2774	2	A43359	microtubule-associ	510	112	3.6	241	2	S32359	glial growth facto
438	115.5	3.7	322	2	A53715	apomucin precursor	511	112	3.6	252	2	T01787	thyrotropin recept
439	115.5	3.7	513	2	AC3061	hypothetical prote	512	112	3.6	253	1	JC1319	thyrotropin recept
440	115.5	3.7	513	2	D98225	hypothetical prote	513	112	3.6	285	2	A41826	probable pheromone
441	115.5	3.7	528	2	I47141	gastric mucin (Clo	514	112	3.6	383	2	S53716	delta-like homeoti
442	115.5	3.7	696	2	T42659	hypothetical prote	515	112	3.6	413	2	S48756	transcription fact
443	115.5	3.7	805	2	T49385	hypothetical prote	516	112	3.6	704	2	AE2107	serine/threonine k
444	115.5	3.7	946	2	S27921	nuclear antigen EB	517	112	3.6	731	2	T04455	hypothetical prote
445	115.5	3.7	1093	2	I38533	AFI7 protein - hum	518	112	3.6	742	2	F84643	hypothetical prote
446	115.5	3.7	1268	2	S52781	neurocan - mouse	519	112	3.6	764	1	QRHUNH	thyrotropin recept
447	115.5	3.7	1460	1	EBE1F	immediate-early pr	520	112	3.6	883	2	S49126	probable precursor
448	115.5	3.7	2214	2	T16305	367K tegument prot	521	112	3.6	960	2	G84652	probable receptor-
449	115.5	3.7	3421	1	W2BE86	hypothetical prote	522	112	3.6	990	2	T03784	probable receptor
450	115	3.7	404	2	T08549	hypothetical prote	523	112	3.6	1032	2	T34433	hypothetical prote
451	115	3.7	451	2	S74728	hypothetical prote	524	112	3.6	1289	2	AB2217	hypothetical prote
452	115	3.7	461	2	T10741	extensin-like prot	525	111.5	3.6	224	2	D72861	gene BCRF2 protein
453	115	3.7	479	1	S25242	transcription fact	526	111.5	3.6	383	2	S32975	transcription fact
454	115	3.7	539	2	AH1216	internalin, probab	527	111.5	3.6	478	1	I47154	probable disease r
455	115	3.7	766	2	T01817	hypothetical prote	528	111.5	3.6	645	2	T05251	hypothetical prote
456	115	3.7	838	2	T08423	Axin homolog Axil	529	111.5	3.6	649	2	T46500	maequade precurs
457	115	3.7	980	2	T05414	protein kinase hom	530	111.5	3.6	1047	2	A55617	disease resistance
458	115	3.7	1133	2	E86308	hypothetical prote	531	111.5	3.6	1253	2	T45787	disease resistance
459	115	3.7	1220	2	A56136	jagged protein pre	532	111.5	3.6	1298	1	EDBE75	immediate-early pr
460	115	3.7	2415	1	A39086	aggreacan precursor	533	111.5	3.6	1353	1	JH0675	restrictin precurs
461	114.5	3.7	328	2	JQ0985	hydroxyproline-ric	534	111.5	3.6	2649	2	T51023	hypothetical prote
462	114.5	3.7	409	2	T11743	pp47 protein - pig	535	111	3.5	274	2	JC8083	heart-restricted l
463	114.5	3.7	505	2	AC1469	internalin like pr	536	111	3.5	478	2	H86459	hypothetical prote
464	114.5	3.7	606	2	T51880	hypothetical prote	537	111	3.5	509	2	T05260	probable disease r
465	114.5	3.7	627	2	T27123	hypothetical prote	538	111	3.5	518	2	S50465	PAC2 protein - yea
466	114.5	3.7	638	2	T05606	protein kinase hom	539	111	3.5	548	2	E70546	hypothetical prote
467	114	3.6	218	2	T01104	disease resistance	540	111	3.5	603	2	S28941	coagulation factor

541	111	3.5	610	2	S35049	mucin JER57 - huma	614	109	3.5	2809	2	T30213	G-cadherin - sea u
542	111	3.5	620	2	T50150	yeast nrd1-like pr	615	108.5	3.5	308	2	JC7125	epidermal growth f
543	111	3.5	699	1	QRHUQT	lutropin-choriogon	616	108.5	3.5	389	2	S27200	proline-rich prote
544	111	3.5	853	2	T17461	disease resistance	617	108.5	3.5	402	2	A84581	probable disease r
545	111	3.5	932	2	T21338	hypothetical prote	618	108.5	3.5	418	2	T15142	hypothetical prote
546	111	3.5	984	2	T48216	hypothetical prote	619	108.5	3.5	499	2	A11107	internain E limpo
547	111	3.5	1721	1	I38902	retinoblastoma bin	620	108.5	3.5	514	2	H70699	probable ppp prote
548	111	3.5	2524	1	A35844	Xotch protein - Af	621	108.5	3.5	548	1	I37577	islet cell antigen
549	110.5	3.5	359	2	C55066	tyrosine decarboxy	622	108.5	3.5	662	2	A45155	mucin FIM-C.1 - Af
550	110.5	3.5	421	2	A60058	neural cell adhesi	623	108.5	3.5	698	2	I39713	celB protein - Agr
551	110.5	3.5	525	2	G86459	Hypothetical 55.6	624	108.5	3.5	710	1	QBHE22	membrane antigen g
552	110.5	3.5	525	1	A58674	neurotrophin-3 rec	625	108.5	3.5	740	2	B84741	hypothetical prote
553	110.5	3.5	533	2	T07970	aromatic-L-amino-a	626	108.5	3.5	756	2	G86308	Similar to disease
554	110.5	3.5	565	2	T01327	Frizzled-2 protein	627	108.5	3.5	764	2	A35956	thyrotropin recept
555	110.5	3.5	684	2	JEO3368	leucine-rich repea	628	108.5	3.5	783	1	A38637	Ras interactor RIN
556	110.5	3.5	803	1	S35695	neurotrophin-3 rec	629	108.5	3.5	825	1	A40026	neurotrophin-3 rec
557	110.5	3.5	815	2	B56708	extracellular sign	630	108.5	3.5	855	2	C82983	hypothetical prote
558	110.5	3.5	855	2	T07015	Cf-4A protein - to	631	108.5	3.5	1011	2	C84524	probable disease r
559	110.5	3.5	872	2	S33015	hypothetical prote	632	108.5	3.5	1125	2	B41206	microtubule-associ
560	110.5	3.5	992	2	A31666	hypothetical prote	633	108.5	3.5	1176	2	T49482	hypothetical prote
561	110.5	3.5	1207	2	T00378	KiAA0641 protein -	634	108.5	3.5	1184	2	G01763	atrophin-1 - human
562	110.5	3.5	1295	2	A32901	glp1 protein precu	635	108.5	3.5	1344	1	A35175	mucin 1 precursor,
563	110.5	3.5	1344	2	T14316	rig-1 protein - mo	636	108.5	3.5	1357	2	T29265	hypothetical prote
564	110.5	3.5	1346	2	T17412	polyketide synthas	637	108.5	3.5	1487	2	T02850	hypothetical prote
565	110.5	3.5	1736	2	T00391	hypothetical prote	638	108.5	3.5	3707	2	S18252	heparan sulfate pr
566	110.5	3.5	2476	2	T34022	zonadhesin - pig	639	108	3.4	348	2	JQ0431	hypothetical 35.5K
567	110	3.5	275	2	T51437	hypothetical prote	640	108	3.4	409	2	AG0752	flagellar hook-len
568	110	3.5	391	2	T04609	hypothetical prote	641	108	3.4	511	1	VGBE1K	chitinase (EC 3.2.
569	110	3.5	549	2	S32987	hypothetical prote	642	108	3.4	542	2	I39540	proline-rich prote
570	110	3.5	691	2	D84889	probable receptor-	643	108	3.4	544	2	T17547	probable potassium
571	110	3.5	708	2	D96711	hypothetical prote	644	108	3.4	550	2	T36746	disease resistance
572	110	3.5	719	2	T02154	protein kinase hom	645	108	3.4	638	1	XXAV	alpha-fetoprotein
573	110	3.5	764	2	I49882	thyrotropin recept	646	108	3.4	741	2	T05250	unconventional myo
574	110	3.5	846	2	H70599	hypothetical prote	647	108	3.4	862	2	S43922	polyketide synthas
575	110	3.5	846	2	T21700	hypothetical prote	648	108	3.4	996	2	JE0237	FK506 polyketide s
576	110	3.5	951	2	A96770	hypothetical prote	649	108	3.4	1017	2	T31354	hypothetical prote
577	110	3.5	1123	2	D96756	receptor-like prot	650	108	3.4	1217	2	T51140	hydroxyproline-ric
578	110	3.5	1483	2	E86143	F6F3.12 protein -	651	108	3.4	1217	2	T51141	hypothetical prote
579	110	3.5	1711	1	A55148	protein-tyrosine-p	652	108	3.4	2783	1	A41948	PAS-6/7 protein pr
580	110	3.5	2703	1	A24420	notch protein - fr	653	108	3.4	3511	2	A59295	hypothetical prote
581	110	3.5	2715	2	T13049	eyelid - fruit fly	654	108	3.4	4613	2	T17409	polypeptide synthas
582	110	3.5	3942	2	T42730	Bassoon protein -	655	108	3.4	7576	2	T17428	PK506 polyketide s
583	109.5	3.5	213	2	A86228	hypothetical prote	656	107.5	3.4	363	2	H87702	hypothetical prote
584	109.5	3.5	279	2	T10361	hypothetical prote	657	107.5	3.4	369	2	S20500	hydroxyproline-ric
585	109.5	3.5	318	2	T29479	hypothetical prote	658	107.5	3.4	414	2	C96770	hypothetical prote
586	109.5	3.5	428	2	E71415	probable coll wall	659	107.5	3.4	427	2	S74211	hypothetical prote
587	109.5	3.5	473	2	S36553	L2 protein - human	660	107.5	3.4	536	2	H71563	hypothetical prote
588	109.5	3.5	507	2	T44768	antifreeze glycope	661	107.5	3.4	604	2	S25203	smr protein - Str
589	109.5	3.5	538	2	S57459	hook-containing pr	662	107.5	3.4	655	2	G96524	protein TIM5.9 [1
590	109.5	3.5	558	2	JCS878	plasma hyaluronan-	663	107.5	3.4	832	2	A31246	neurogenic repetit
591	109.5	3.5	583	1	S22544	transcription fact	664	107.5	3.4	880	2	S00670	cellulose synthase
592	109.5	3.5	612	2	I73633	gene trkC protein	665	107.5	3.4	881	2	B98320	receptor kinase-li
593	109.5	3.5	825	2	A55178	neurotrophin recep	666	107.5	3.4	1009	2	T45645	tumor suppressor p
594	109.5	3.5	839	1	I73632	neurotrophin-3 rec	667	107.5	3.4	1099	2	A56155	formin isoform IV
595	109.5	3.5	874	2	E97302	hypothetical prote	668	107.5	3.4	1206	2	S24407	DNA-binding protei
596	109.5	3.5	878	2	T21621	hypothetical prote	669	107.5	3.4	1324	2	S52863	formin - mouse
597	109.5	3.5	954	2	T19765	hypothetical prote	670	107.5	3.4	1468	2	T11515	tegument protein 2
598	109.5	3.5	1299	2	T47182	hypothetical prote	671	107.5	3.4	3534	2	S42567	platelet glycoprot
599	109.5	3.5	1776	1	RRWPYM	genome polypeptid	672	107	3.4	176	1	A45606	extensin-like prot
600	109.5	3.5	2531	2	T31070	notch homolog - se	673	107	3.4	228	2	S53504	fibronectin - chic
601	109.5	3.5	2717	2	A34203	DNA-binding protei	674	107	3.4	273	2	A28512	transmembrane glyc
602	109	3.5	379	2	T05441	proline-rich prote	675	107	3.4	354	2	A48931	infected cell prot
603	109	3.5	379	2	D85257	extensin-like prot	676	107	3.4	358	1	WMBE38	dermal gland prote
604	109	3.5	395	2	I52842	CD43 Lp-3 antigen	677	107	3.4	416	1	SKXLAG	mucin - rat (fragm
605	109	3.5	395	2	A43545	leukostalin CD43 p	678	107	3.4	447	2	A39321	transcription fact
606	109	3.5	403	2	S52796	prp12 protein - hu	679	107	3.4	452	2	C41602	hypothetical prote
607	109	3.5	426	2	JQ1696	pistil extensin-li	680	107	3.4	518	2	F75460	coagulation factor
608	109	3.5	431	2	T04868	hypothetical prote	681	107	3.4	615	1	KFHU12	disaccharide alpha
609	109	3.5	437	2	A54595	transcription fact	682	107	3.4	650	2	S59630	phormone response
610	109	3.5	598	2	C96756	receptor-like prot	683	107	3.4	840	1	S69204	hypothetical prote
611	109	3.5	613	2	T42671	hypothetical prote	684	107	3.4	915	2	T12526	hypothetical prote
612	109	3.5	833	2	S19087	gene Delta protein	685	107	3.4	1063	1	GNWVR4	structural polypro
613	109	3.5	1611	2	T38236	hypothetical prote	686	107	3.4	1376	2	G00043	osteonidogen - hum

687	107	3.4	1389	2	I58157	periaxin - rat	760	105	3.3	1133	2	A54164	sterol regulatory
688	107	3.4	2723	2	T03221	probable polyketid	761	105	3.3	1135	2	T30561	Seythe protein - A
689	107	3.4	7463	2	T36288	CDA peptide synth	762	105	3.3	1136	1	S57845	protein-tyrosine k
690	106.5	3.4	304	2	A32993	transcription fact	763	105	3.3	1456	2	T01397	Ltr gag/pol polypr
691	106.5	3.4	353	2	A41558	N-syndecan - rat (	764	105	3.3	1658	2	D75489	hypothetical prote
692	106.5	3.4	505	2	B46629	mucin 6, gastric (	765	105	3.3	1844	2	S01956	hypothetical prote
693	106.5	3.4	509	2	D86911	conserved hypothet	766	105	3.3	2133	2	T30637	hypothetical prote
694	106.5	3.4	509	2	T10013	probable phosphopr	767	105	3.3	2409	1	A60979	versican precursor
695	106.5	3.4	517	2	A01570	internalin, probab	768	105	3.3	2769	1	UIBO	thryoglobulin prec
696	106.5	3.4	620	2	S06733	hydroxyproline-ric	769	104.5	3.3	329	2	T17033	leucine rich repea
697	106.5	3.4	827	2	AC2963	celB protein [impo	770	104.5	3.3	407	2	C70816	hypothetical prote
698	106.5	3.4	925	2	H36638	protein tif9.20 li	771	104.5	3.3	464	2	T35943	probable hydrolyti
699	106.5	3.4	998	2	C75489	conserved hypothet	772	104.5	3.3	530	2	T32812	hypothetical prote
700	106.5	3.4	1003	2	T13856	ksr protein - frui	773	104.5	3.3	639	2	G02919	transcription fact
701	106.5	3.4	1161	2	S57180	probable membrane	774	104.5	3.3	662	2	T04856	hypothetical prote
702	106.5	3.4	1184	2	S05832	atrophin-1 - human	775	104.5	3.3	700	2	A42395	lutropin receptor
703	106.5	3.4	1305	2	A30168	probable cell divi	776	104.5	3.3	707	1	A34458	gelatinase B (EC 3
704	106.5	3.4	1442	2	T42607	transcription acti	777	104.5	3.3	707	1	A53796	probable ABC trans
705	106.5	3.4	1892	2	T18314	hypothetical prote	778	104.5	3.3	744	2	T35192	hypothetical prote
706	106.5	3.4	2090	2	S26058	probable transform	779	104.5	3.3	755	2	T20950	hypothetical prote
707	106.5	3.4	2453	2	S60254	nuclear receptor c	780	104.5	3.3	909	1	QRXLU1	hbl receptor 1 pre
708	106	3.4	135	2	T49996	ACAGP4 - Arabidops	781	104.5	3.3	960	1	S28262	kinesin-related pr
709	106	3.4	167	2	A33532	mucin SMUC-40 - hu	782	104.5	3.3	1117	2	JC4934	delta-crystallin/E
710	106	3.4	216	2	I51920	mucin - rhesus mac	783	104.5	3.3	1194	2	E96624	hypothetical prote
711	106	3.4	287	2	S65765	chitinase (EC 3.2.	784	104.5	3.3	1241	2	T37190	nephtrin - human
712	106	3.4	405	2	S78691	flagellar hook-len	785	104.5	3.3	1505	2	JC4851	hypoxia-inducible
713	106	3.4	431	2	S47538	acrosin (EC 3.4.21	786	104.5	3.3	1851	2	T19964	hypothetical prote
714	106	3.4	435	2	D41602	transcription fact	787	104.5	3.3	1898	2	S46216	leukocyte antigen-
715	106	3.4	443	2	B39794	transcription fact	788	104.5	3.3	2117	2	T36180	CDA peptid synth
716	106	3.4	449	2	A24993	cellulase (EC 3.2.	789	104	3.3	232	2	A60095	larval glue protei
717	106	3.4	567	2	A45977	Rab geranylgeranyl	790	104	3.3	305	2	I49139	lymphotoxin-beta -
718	106	3.4	666	2	B70803	hypothetical prote	791	104	3.3	318	2	B64900	hypothetical prote
719	106	3.4	701	2	D48613	gag polypeptide -	792	104	3.3	326	2	A46676	Cb68 homolog macro
720	106	3.4	818	2	T01105	disease resistance	793	104	3.3	332	2	S43988	protein phosphatas
721	106	3.4	822	2	T51049	related to nucleol	794	104	3.3	360	2	S68209	sds22 protein homo
722	106	3.4	850	2	S56015	gastric mucin MUC5	795	104	3.3	365	2	A39481	serum response fac
723	106	3.4	901	2	A49227	sialidase - Actino	796	104	3.3	426	2	D88103	protein W10G11.6 (
724	106	3.4	914	2	T17233	hypothetical prote	797	104	3.3	440	2	I49681	glyceroldehyde-3-p
725	106	3.4	1064	2	A40136	fibropellin Ia - s	798	104	3.3	470	2	S36536	L2 protein - human
726	106	3.4	1603	2	A48613	gag/pol polyprotei	799	104	3.3	537	2	A46611	myosin-binding pro
727	106	3.4	1958	2	B40505	hypothetical prote	800	104	3.3	538	2	S65764	chitinase (EC 3.2.
728	106	3.4	2554	1	TVPF7L	kinase-related pro	801	104	3.3	593	2	S49525	Glycoprotein G - s
729	106	3.4	3938	2	T42761	Bassoon protein -	802	104	3.3	712	1	I46031	gelatinase B (EC 3
730	105.5	3.4	395	2	T01392	leucine-rich repea	803	104	3.3	895	2	S20582	dystrophin-associa
731	105.5	3.4	486	2	A41537	DNA-binding protei	804	104	3.3	927	2	T24031	hypothetical prote
732	105.5	3.4	510	2	A42750	insulinoma-associa	805	104	3.3	1045	2	T16275	hypothetical prote
733	105.5	3.4	668	2	T05257	probable disease r	806	104	3.3	1547	2	T28657	blackjack protein,
734	105.5	3.4	688	2	T04568	protein kinase hom	807	104	3.3	1575	2	S68448	synaptotagmin, 170K
735	105.5	3.4	695	2	S62400	amphiphysin (clone	808	104	3.3	1711	2	T31337	1,4-beta-glucanase
736	105.5	3.4	772	2	T13078	KIAA0392 protein -	809	104	3.3	1744	2	A54970	tensin, cardiac mu
737	105.5	3.4	780	2	A48143	HF-1 regulatory ei	810	104	3.3	3507	2	T34513	hypothetical prote
738	105.5	3.4	952	2	S32954	hypothetical prote	811	103.5	3.3	206	1	NBHUIB	platelet glycoprot
739	105.5	3.4	1132	2	A35098	MHC class III hist	812	103.5	3.3	264	2	PQ0478	pistil extensin-li
740	105.5	3.4	1172	2	T00065	hypothetical prote	813	103.5	3.3	281	2	D70845	hypothetical prote
741	105.5	3.4	1621	2	T15264	hypothetical prote	814	103.5	3.3	393	2	PQ0479	pistil extensin-li
742	105.5	3.4	1712	2	A38261	masking protein pr	815	103.5	3.3	411	1	I55604	platelet glycoprot
743	105.5	3.4	1839	1	RRWPEM	genome polypeptid	816	103.5	3.3	419	2	T49252	hypothetical prote
744	105.5	3.4	2477	2	S14428	fibronectin precu	817	103.5	3.3	444	1	A39794	transcription fact
745	105.5	3.4	3033	1	J01303	genome polypeptid	818	103.5	3.3	489	2	F75591	P49 secreted prote
746	105	3.3	349	2	T05857	hypothetical prote	819	103.5	3.3	625	2	A26456	nicotinic acetylch
747	105	3.3	422	2	I37891	interleukin-li rec	820	103.5	3.3	654	2	T33044	hypothetical prote
748	105	3.3	454	2	E75291	probable cell wall	821	103.5	3.3	889	2	P96637	hypothetical prote
749	105	3.3	460	2	T33110	hypothetical prote	822	103.5	3.3	898	2	T20123	hypothetical prote
750	105	3.3	486	1	A57601	transcription fact	823	103.5	3.3	968	2	T00353	hypothetical prote
751	105	3.3	511	1	VGBEF4	glycoprotein C - h	824	103.5	3.3	975	2	I48974	receptor-protein t
752	105	3.3	566	2	T34842	probable transfera	825	103.5	3.3	980	2	S54986	regulatory protein
753	105	3.3	620	2	A70525	hypothetical prote	826	103.5	3.3	1020	2	A29355	fibronectin - chic
754	105	3.3	658	2	T08153	cysteine proteinas	827	103.5	3.3	1144	2	A54810	hypothetical prote
755	105	3.3	730	2	JC1456	gelatinase B (EC 3	828	103.5	3.3	1171	2	T35548	C-terminal domain-
756	105	3.3	764	2	JC5643	thyroid stimulat	829	103.5	3.3	1268	2	T31420	protein T7N9.24 li
757	105	3.3	847	1	A53800	mixed-lineage prot	830	103.5	3.3	1590	2	B86398	collagen alpha 1(X
758	105	3.3	895	2	I54343	dystroglycan - hum	831	103.5	3.3	1603	2	S23810	transcription acti
759	105	3.3	976	2	A36355	protein-tyrosine k	832	103.5	3.3	1638	2	A42091	

833	103.5	3.3	1733	1	B45344	probable nuclear a	906	102	3.3	567	2	JC5538	Rab geranylgeranyl
834	103.5	3.3	3739	2	T17410	polyketide synthas	907	102	3.3	585	1	B70747	probable serine/th
835	103	3.3	168	2	S52994	arabinogalactan-li	908	102	3.3	650	2	B87791	protein B0207.1 [i
836	103	3.3	191	2	E84740	hypothetical prote	909	102	3.3	670	2	S22293	zinc finger protei
837	103	3.3	227	2	T27905	hypothetical prote	910	102	3.3	715	2	T12534	hypothetical prote
838	103	3.3	263	2	S01360	salivary glue prot	911	102	3.3	722	2	I48324	DELTA-like 1 - mou
839	103	3.3	362	2	A44083	meq protein - Mare	912	102	3.3	728	2	D86278	hypothetical prote
840	103	3.3	367	2	AC1328	internalin protein	913	102	3.3	890	2	E84846	probable receptor -
841	103	3.3	379	2	T16213	APX-1 protein homo	914	102	3.3	896	1	A35782	cytokine receptor
842	103	3.3	394	2	C84905	probable extensin	915	102	3.3	923	2	A39596	progesterone recep
843	103	3.3	515	1	F70904	hypothetical prote	916	102	3.3	963	2	A55926	DNA binding protei
844	103	3.3	535	1	S76953	protein kinase (EC	917	102	3.3	1008	2	T04462	hypothetical prote
845	103	3.3	550	2	G70597	probable proteinas	918	102	3.3	1021	2	H75423	hypothetical prote
846	103	3.3	575	2	B60181	Kill2 protein - hu	919	102	3.3	1032	2	D83637	serine/threonine p
847	103	3.3	611	2	JG3120	hypothetical prote	920	102	3.3	1052	2	B49120	protein-tyrosine k
848	103	3.3	648	2	F48613	hypothetical prote	921	102	3.3	1069	2	D85383	hypothetical prote
849	103	3.3	701	2	F48613	gag polypeptide -	922	102	3.3	1137	2	A86335	T20H2.9 protein -
850	103	3.3	793	2	JC7390	thyroid stimulat	923	102	3.3	1166	2	T13958	syncAP-bl protein
851	103	3.3	799	1	TVRTTB	nerve growth facto	924	102	3.3	1249	2	T14270	Ras-GTPase activat
852	103	3.3	813	2	T04313	protein kinase Xa2	925	102	3.3	1293	2	T14259	ras GTPase-activat
853	103	3.3	851	2	S67285	NUD1 protein - yea	926	102	3.3	1395	2	A33988	adenylate cyclase
854	103	3.3	863	2	A55173	cf-9 protein precu	927	102	3.3	1682	2	S19151	hypothetical prote
855	103	3.3	915	2	S36327	clathrin assembly	928	102	3.3	2218	2	B84683	hypothetical prote
856	103	3.3	1040	2	T29092	TSC-22 protein hom	929	102	3.3	2437	2	S42612	transmembrane prot
857	103	3.3	1121	2	A82809	exodeoxyribonuclea	930	102	3.3	2440	2	S39162	transcription coac
858	103	3.3	1199	2	A40670	nuclear envelope p	931	102	3.3	2441	2	S39161	CREB-binding prote
859	103	3.3	1201	2	G86441	unknown protein [i	932	102	3.3	3124	2	A40020	collagen alpha 1(X
860	103	3.3	1275	2	T33369	hypothetical prote	933	102	3.3	5147	1	IJFFTM	cadherin-related t
861	103	3.3	1340	2	A39808	proteoglycan core	934	101.5	3.2	98	2	S53367	mucin SAC (clone M
862	103	3.3	1541	2	T02831	AAA protein L4171.	935	101.5	3.2	173	2	T47176	hypothetical prote
863	103	3.3	1894	2	C54689	protein-tyrosine-p	936	101.5	3.2	244	2	A40428	nonspecific cross-
864	103	3.3	2207	1	GNNY5P	genome polyprotein	937	101.5	3.2	372	2	T29359	hypothetical prote
865	103	3.3	2481	2	A43908	fibronectin - Afri	938	101.5	3.2	409	2	T43599	yop targeted effec
866	103	3.3	3133	2	S52093	hemocytin - silkw	939	101.5	3.2	547	2	B56573	nuclear pore compl
867	102.5	3.3	217	2	S01358	salivary glue prot	940	101.5	3.2	654	2	C87587	hypothetical prote
868	102.5	3.3	252	2	T04739	hypothetical prote	941	101.5	3.2	657	2	B84869	probable S16 prot
869	102.5	3.3	316	2	T31880	hypothetical prote	942	101.5	3.2	710	2	T44753	hypothetical prote
870	102.5	3.3	338	2	I53043	transforming prote	943	101.5	3.2	728	2	I50719	C-Delta-1 - chicke
871	102.5	3.3	352	2	S17313	transcription fact	944	101.5	3.2	733	2	A87168	conserved hypotet
872	102.5	3.3	371	2	F70555	hypothetical prote	945	101.5	3.2	833	2	AF2089	hypothetical prote
873	102.5	3.3	379	2	S31719	proline-rich prote	946	101.5	3.2	869	2	A55384	transcription fact
874	102.5	3.3	383	2	B86272	protein F16A4.12	947	101.5	3.2	921	2	S40495	collagen alpha 1(I
875	102.5	3.3	385	2	S53718	homeotic protein d	948	101.5	3.2	947	2	G86420	probable receptor -
876	102.5	3.3	385	2	A54785	preadipocyte facto	949	101.5	3.2	977	2	I52657	seizure-related pr
877	102.5	3.3	421	2	T30709	core protein homol	950	101.5	3.2	984	1	A34076	protein-tyrosine k
878	102.5	3.3	507	1	A32385	erythropoietin rec	951	101.5	3.2	1034	2	JC5569	serine proteinase
879	102.5	3.3	627	2	D75393	serine proteinase,	952	101.5	3.2	1039	2	A85096	hypothetical prote
880	102.5	3.3	674	2	T05264	probable erine/th	953	101.5	3.2	1429	2	S06434	homeotic protein 1
881	102.5	3.3	706	2	E30411	synapsin Ia - bovi	954	101.5	3.2	1668	2	T13748	sex comb protein -
882	102.5	3.3	730	1	I52580	gelatinase B (EC 3	955	101.5	3.2	1733	2	S27939	tensin - chicken
883	102.5	3.3	760	1	S07896	transcription fact	956	101.5	3.2	4543	1	A53102	alpha-2-macroglobu
884	102.5	3.3	904	2	T46170	disease resistance	957	101	3.2	240	2	B24264	proline-rich prote
885	102.5	3.3	907	2	E96636	hypothetical prote	958	101	3.2	249	2	S72619	hypothetical prote
886	102.5	3.3	942	1	JQ1674	protein kinase TWK	959	101	3.2	294	2	T34537	hypothetical prote
887	102.5	3.3	964	2	JC5545	integrin beta-4 pr	960	101	3.2	360	2	S25561	transcription fact
888	102.5	3.3	1013	2	T46422	hypothetical prote	961	101	3.2	373	2	A44478	probable cell grow
889	102.5	3.3	1115	1	IJMSNL	neural cell adhesi	962	101	3.2	401	2	A48423	engrailed homeodom
890	102.5	3.3	1233	2	T15316	hypothetical prote	963	101	3.2	482	2	A44997	merozoite surfac
891	102.5	3.3	1350	2	G36793	hypothetical prote	964	101	3.2	492	2	B85911	probable penicilli
892	102.5	3.3	1367	1	S48478	glucan 1,4-alpha-g	965	101	3.2	574	2	B87619	sensor histidine k
893	102.5	3.3	1678	2	T33547	hypothetical prote	966	101	3.2	610	2	A28798	myosin-light-chain
894	102.5	3.3	1779	2	T31085	xylanase - Caldice	967	101	3.2	613	2	A40497	dihydrolipoamide S
895	102.5	3.3	1813	2	T30564	resistance protein	968	101	3.2	615	1	XXHU	dihydrolipoamide S
896	102.5	3.3	1863	2	S46217	protein-tyrosine-p	969	101	3.2	628	2	JQ0110	hypothetical 69K p
897	102.5	3.3	1875	2	A36429	integrin beta-4 ch	970	101	3.2	671	2	D84648	probable disease r
898	102.5	3.3	2207	2	S09553	genome polyprotein	971	101	3.2	688	2	T18263	S-layer protein -
899	102	3.3	301	2	JQ1673	hybrid proline-ric	972	101	3.2	700	2	D70951	probable UvrD - My
900	102	3.3	307	2	S36779	ribosome-binding p	973	101	3.2	739	2	I56187	transcription fact
901	102	3.3	317	2	A28996	proline-rich prote	974	101	3.2	796	2	T21460	hypothetical prote
902	102	3.3	353	2	B36963	bcsA 5'-region pro	975	101	3.2	846	1	Q08EC3	HQR1 protein - hu
903	102	3.3	413	2	T49545	hypothetical prote	976	101	3.2	1043	2	A56037	DNA-binding protei
904	102	3.3	532	2	S74453	hypothetical prote	977	101	3.2	1127	2	T32404	hypothetical prote
905	102	3.3	554	1	FOHUMP	macrophage colony-	978	101	3.2	1257	2	S28764	neurocan precursor

1125	98.5	3.1	230	2	T22763	hypothetical prote	1198	97.5	3.1	362	2	S22395	fetuin precursor -
1126	98.5	3.1	254	2	D88560	protein F58A4.1 [i	1199	97.5	3.1	429	2	JC4965	eikl protein - mou
1127	98.5	3.1	342	2	I77461	lutetizing hormon	1200	97.5	3.1	460	2	T23087	hypothetical prote
1128	98.5	3.1	349	2	T15422	hypothetical prote	1201	97.5	3.1	467	2	S22697	extensin - Volvox
1129	98.5	3.1	379	2	S50125	larval glue protei	1202	97.5	3.1	494	2	F83634	hypothetical prote
1130	98.5	3.1	385	2	T18180	proline-rich prote	1203	97.5	3.1	511	2	T43282	alp21 protein - fi
1131	98.5	3.1	393	2	S62335	I71-7 protein - fr	1204	97.5	3.1	521	2	S54266	glycoprotein gc -
1132	98.5	3.1	434	1	A35005	u-plasminogen acti	1205	97.5	3.1	531	2	B55066	tyrosine decarboxy
1133	98.5	3.1	464	2	T26553	hypothetical prote	1206	97.5	3.1	563	2	A75594	ferredoxin-nitrite
1134	98.5	3.1	486	2	B39481	serum response fac	1207	97.5	3.1	574	1	A48501	probable protein-1
1135	98.5	3.1	514	2	A44100	cell adhesion mole	1208	97.5	3.1	587	2	T41653	probable transcrip
1136	98.5	3.1	633	2	T47346	receptor protein k	1209	97.5	3.1	614	2	T33149	hypothetical prote
1137	98.5	3.1	700	2	I77463	lutetizing hormon	1210	97.5	3.1	626	2	B70754	probable serine/th
1138	98.5	3.1	707	2	A49742	lutropin-choriogon	1211	97.5	3.1	627	1	JC6534	protein kinase 1 (
1139	98.5	3.1	770	2	T22808	PTB-associated spl	1212	97.5	3.1	627	2	AB0535	hypothetical prote
1140	98.5	3.1	803	2	F59433	hypothetical prote	1213	97.5	3.1	631	1	A36749	transcription fact
1141	98.5	3.1	803	2	F59433	RhoGAP protein [im	1214	97.5	3.1	662	2	D40228	neurexin II-beta p
1142	98.5	3.1	837	2	A42112	mucin-like peptide	1215	97.5	3.1	676	1	EDBE23	immediate-early pr
1143	98.5	3.1	862	2	E88594	protein Y48A6B.11	1216	97.5	3.1	710	2	AC8728	hypothetical prote
1144	98.5	3.1	885	2	B86257	NBS/LRR disease re	1217	97.5	3.1	754	2	AC2807	OmpA family protei
1145	98.5	3.1	921	2	D86293	F7H2.22 protein -	1218	97.5	3.1	754	2	B97586	hypothetical prote
1146	98.5	3.1	947	2	T26314	hypothetical prote	1219	97.5	3.1	814	2	G02390	disintegrin-like m
1147	98.5	3.1	1087	2	T31100	probable potassium	1220	97.5	3.1	817	2	S51342	verprolin - yeast
1148	98.5	3.1	1272	2	T30248	fragile X mental r	1221	97.5	3.1	830	2	T17672	chitinase-like pro
1149	98.5	3.1	1281	2	T00346	hypothetical prote	1222	97.5	3.1	893	2	H96651	protein T318.19 [
1150	98.5	3.1	1309	2	T00078	probable RNA-direc	1223	97.5	3.1	909	1	A54809	disease resistance
1151	98.5	3.1	1396	2	A44453	translation initia	1224	97.5	3.1	921	2	AE0332	conserved hypothet
1152	98.5	3.1	1774	2	B56101	collagen alpha 1(X	1225	97.5	3.1	929	2	T52517	hypothetical prote
1153	98.5	3.1	2180	2	T29764	hypothetical prote	1226	97.5	3.1	948	2	F87693	peptidase, M16 fam
1154	98.5	3.1	2339	2	A42566	omega-conotoxin-se	1227	97.5	3.1	1006	2	G86292	hypothetical prote
1155	98	3.1	182	2	T07641	PEARL1 protein h	1228	97.5	3.1	1258	2	JC5765	inositol polyphosp
1156	98	3.1	291	2	AF0123	probable antigen	1229	97.5	3.1	1392	2	T51947	probable transcrip
1157	98	3.1	296	2	A56943	sensory/motor neur	1230	97.5	3.1	1715	2	C40228	neurexin II-alpha
1158	98	3.1	303	2	S40973	hypothetical prote	1231	97.5	3.1	1748	1	JQ1555	genome polyprotein
1159	98	3.1	352	2	S09266	Ig alpha chain C r	1232	97	3.1	191	2	F84522	probable proline-r
1160	98	3.1	416	1	A42879	advanced glycosyla	1233	97	3.1	238	2	T23867	hypothetical prote
1161	98	3.1	442	2	S50062	cell wall glycopro	1234	97	3.1	238	2	T28419	hypothetical prote
1162	98	3.1	499	2	A12449	hypothetical prote	1235	97	3.1	330	2	T05717	probable extensin
1163	98	3.1	514	2	A56201	transcription fact	1236	97	3.1	355	2	B26883	neural cell adhesi
1164	98	3.1	534	2	S21961	proline-rich prote	1237	97	3.1	357	2	A39364	GDF-1 embryonic gr
1165	98	3.1	535	2	S65762	chitinase (EC 3.2.	1238	97	3.1	379	2	AE3003	conserved hypothet
1166	98	3.1	538	2	I68093	PRR2 delta - human	1239	97	3.1	395	2	A86166	protein F21B7.6 [i
1167	98	3.1	538	2	A70836	hypothetical prote	1240	97	3.1	397	2	T00914	leucine-rich repea
1168	98	3.1	553	1	A42499	hypothetical prote	1241	97	3.1	400	1	A28172	spasmolysin precu
1169	98	3.1	560	1	WFHUM	mullerian inhibiti	1242	97	3.1	421	1	S11674	acrosin (EC 3.4.21
1170	98	3.1	605	2	S48940	hypothetical prote	1243	97	3.1	428	1	TVHUEK	transforming prote
1171	98	3.1	614	2	S27962	modulator recognit	1244	97	3.1	452	2	D98280	hypothetical 28.0K
1172	98	3.1	631	2	C89243	protein F28C1.3 [i	1245	97	3.1	459	2	T35317	probable serine/th
1173	98	3.1	631	2	T21471	hypothetical prote	1246	97	3.1	483	2	T02226	NBS-LRR type resis
1174	98	3.1	715	2	S76492	lipoprotein nlpD -	1247	97	3.1	500	2	D97302	hypothetical prote
1175	98	3.1	728	2	H59435	phosphoinositide-3	1248	97	3.1	530	2	G70904	hypothetical prote
1176	98	3.1	750	2	T42614	probable envelope	1249	97	3.1	601	2	T22025	hypothetical prote
1177	98	3.1	788	1	Q0BEE3	HHLF1 protein - hu	1250	97	3.1	601	2	D89711	protein F40E10.4 [
1178	98	3.1	856	2	T43631	serine/threonine k	1251	97	3.1	632	2	T02627	hypothetical prote
1179	98	3.1	889	2	C86257	resistance to pseu	1252	97	3.1	701	1	FOFV1R	gag polyprotein -
1180	98	3.1	896	2	S36326	clathrin assembly	1253	97	3.1	860	2	JC4566	chitinase (EC 3.2.
1181	98	3.1	1006	2	JC5526	kinase-defective E	1254	97	3.1	966	2	D96662	hypothetical prote
1182	98	3.1	1216	2	T34101	hypothetical prote	1255	97	3.1	967	2	G96637	hypothetical prote
1183	98	3.1	1372	2	T25933	hypothetical prote	1256	97	3.1	1123	2	A39962	kinase-related tra
1184	98	3.1	1522	2	H88380	protein T22F7.3 [i	1257	97	3.1	1214	2	T47438	disease resistance
1185	98	3.1	1873	2	A55645	calcium channel, v	1258	97	3.1	1265	1	A37967	neural cell adhesi
1186	98	3.1	2115	2	S38480	nonstructural prot	1259	97	3.1	1690	2	T35694	ATP dependent DNA
1187	98	3.1	3190	2	T13828	CREB-binding prote	1260	97	3.1	1734	2	A54602	microtubule-associ
1188	98	3.1	3623	2	T08618	intrinsic factor-B	1261	97	3.1	2055	2	T00093	hypothetical prote
1189	98	3.1	3635	2	T10053	laminin alpha 5 ch	1262	97	3.1	2205	1	GNVY2W	genome polyprotein
1190	98	3.1	3871	2	T22812	hypothetical prote	1263	97	3.1	3034	2	T14119	seven-pass transme
1191	98	3.1	5069	2	T17464	rifamycin polyketi	1264	96.5	3.1	346	2	E75129	proline-rich prote
1192	97.5	3.1	215	2	S55925	probable arabinoga	1265	96.5	3.1	350	2	E95341	peptidyl-prolyl ci
1193	97.5	3.1	266	1	A35037	insulin-like growt	1266	96.5	3.1	419	2	G70602	hypothetical prote
1194	97.5	3.1	268	2	S71830	transcription coac	1267	96.5	3.1	430	2	I48755	hypothetical prote
1195	97.5	3.1	277	2	A46241	interferon respons	1268	96.5	3.1	444	2	B36389	transcription fact
1196	97.5	3.1	306	2	T09067	extensin-like prot	1269	96.5	3.1	485	1	S22543	transcription fact
1197	97.5	3.1	338	1	TVMSFB	transforming prote	1270	96.5	3.1	487	2	F70765	hypothetical prote

1271	96.5	3.1	514	2	A31643	cell adhesion 80K	1344	95.5	3.0	1159	2	I38465	probable potassium
1272	96.5	3.1	528	2	B75310	conserved hypothet	1345	95.5	3.0	1255	2	T31085	diaphanous protein
1273	96.5	3.1	574	2	B35149	ipah protein - Shi	1346	95.5	3.0	1256	2	T03096	CD0 protein - rat
1274	96.5	3.1	598	2	T42070	protein serine/thr	1347	95.5	3.0	1331	2	T49813	related to gastric
1275	96.5	3.1	635	2	F70874	probable membrane	1348	95.5	3.0	1630	2	T00390	KIAA0614 protein -
1276	96.5	3.1	637	2	A75342	hypothetical prote	1349	95.5	3.0	2761	2	T21064	hypothetical prote
1277	96.5	3.1	646	2	T34532	hypothetical prote	1350	95	3.0	175	2	I38408	neu differentiation
1278	96.5	3.1	654	2	T45017	chemotaxis histidi	1351	95	3.0	227	2	C29149	proline-rich prote
1279	96.5	3.1	669	2	T08827	hypothetical prote	1352	95	3.0	227	2	G70555	hypothetical prote
1280	96.5	3.1	796	2	E96654	hypothetical prote	1353	95	3.0	239	2	S25618	hypothetical prote
1281	96.5	3.1	825	1	EBEXD	immediate-early pr	1354	95	3.0	241	2	D43273	heregulin precursor
1282	96.5	3.1	1021	2	A86421	Receptor-like seri	1355	95	3.0	273	2	C70551	hypothetical prote
1283	96.5	3.1	1209	2	T00373	hypothetical prote	1356	95	3.0	326	2	A59232	AAA-responsive pro
1284	96.5	3.1	1241	2	T18311	hypothetical prote	1357	95	3.0	338	2	T06336	proline-rich prote
1285	96.5	3.1	1557	2	T02859	probable serine/th	1358	95	3.0	385	1	I39498	Grp cyclohydrolase
1286	96.5	3.1	1282	2	T42717	DNA-binding protei	1359	95	3.0	413	2	T52617	hypothetical prote
1287	96.5	3.1	2352	2	T30201	Notch homolog prot	1360	95	3.0	477	2	S53362	mucin 5AC (clone J
1288	96.5	3.1	26926	1	I38344	titin, cardiac mus	1361	95	3.0	494	1	A29079	lymphocyte surface
1289	96	3.1	214	2	T10737	extensin-like cell	1362	95	3.0	502	2	A55197	Wiskott-Aldrich sy
1290	96	3.1	240	2	A42464	proline-rich prote	1363	95	3.0	636	2	I61718	neu differentiation
1291	96	3.1	287	2	C75494	cell division prot	1364	95	3.0	653	2	E84682	hypothetical prote
1292	96	3.1	346	2	JA0159	cysteine proteinas	1365	95	3.0	662	2	I61722	neu differentiation
1293	96	3.1	445	2	T05887	hypothetical prote	1366	95	3.0	667	2	T17221	hypothetical prote
1294	96	3.1	451	2	D88395	protein F53A3.6 [i	1367	95	3.0	673	2	T48012	hypothetical prote
1295	96	3.1	483	2	S12741	transcription fact	1368	95	3.0	705	2	A35621	spore germination
1296	96	3.1	537	1	FOHVG	gag polypeptid -	1369	95	3.0	712	2	G02512	interleukin-1 rece
1297	96	3.1	580	2	T43481	probable mucin DKF	1370	95	3.0	760	2	T16726	hypothetical prote
1298	96	3.1	594	2	S33561	ref(2)P protein -	1371	95	3.0	776	2	C96554	unknown protein [i
1299	96	3.1	598	2	T48822	hypothetical prote	1372	95	3.0	799	2	T48889	serine/threonine p
1300	96	3.1	635	1	WMBEW	capsid protein - h	1373	95	3.0	846	2	S52418	Grp-binding regula
1301	96	3.1	858	1	IJRTNC	neural cell adhesi	1374	95	3.0	891	2	G84693	probable proline-r
1302	96	3.1	883	2	A96662	hypothetical prote	1375	95	3.0	901	2	A44825	phosphoprotein, sy
1303	96	3.1	907	2	AD2951	cell division prot	1376	95	3.0	903	2	S60257	meltrin alpha - mo
1304	96	3.1	910	2	H98331	cell division prot	1377	95	3.0	943	2	T34847	probable transcrip
1305	96	3.1	969	2	A75634	McxB-related prote	1378	95	3.0	1024	2	S18251	collagen alpha 1(X
1306	96	3.1	1216	2	T26104	hypothetical prote	1379	95	3.0	1209	2	T13153	polyketide synthas
1307	96	3.1	1231	2	S30185	insulin receptor s	1380	95	3.0	1324	2	T14070	peptide synthetase
1308	96	3.1	1544	2	E59431	phosphoinositide-b	1381	95	3.0	1474	2	E85188	retrotransposon li
1309	96	3.1	1615	2	B49502	protein-tyrosine-p	1382	95	3.0	1616	2	G70668	ice nucleation pro
1310	96	3.1	1737	2	T00209	MEGF8 protein - hu	1383	95	3.0	1731	2	AB3045	hypothetical prote
1311	96	3.1	1767	2	A49502	protein-tyrosine-p	1384	95	3.0	1731	2	B98241	saframycin Mx1 syn
1312	96	3.1	1844	1	RWPPTM	genome polypeptid	1385	95	3.0	1770	2	T18551	collagen alpha 1(X
1313	96	3.1	2529	2	A56923	transcription fact	1386	95	3.0	1806	1	CGHUIE	hypothetical prote
1314	96	3.1	5376	2	T42215	zonadhesin - mouse	1387	95	3.0	2090	2	T30075	transcription fact
1315	95.5	3.0	188	2	D29149	proline-rich prote	1388	95	3.0	2148	2	A56011	adenomatous polypo
1316	95.5	3.0	284	1	TDMSM4	conserved hypothet	1389	95	3.0	2274	2	T30258	laminin alpha-1 ch
1317	95.5	3.0	366	1	S75823	monocyte surface g	1390	95	3.0	3084	1	MMMSA	high sulfur zein p
1318	95.5	3.0	382	2	S75823	threonine synthase	1391	94.5	3.0	211	2	T03381	hypothetical prote
1319	95.5	3.0	384	2	S51796	vasodilator-stimul	1392	94.5	3.0	255	2	B75309	proline-rich prote
1320	95.5	3.0	435	2	T46443	hypothetical prote	1393	94.5	3.0	255	2	S31096	hypothetical prote
1321	95.5	3.0	451	2	S71754	cellular hepatitis	1394	94.5	3.0	270	2	E87649	microtubule-associ
1322	95.5	3.0	479	2	D70676	probable PE protei	1395	94.5	3.0	277	2	I38857	peptidase, M23/M37
1323	95.5	3.0	486	2	AB2975	succinate semialde	1396	94.5	3.0	298	2	H87533	transcription regu
1324	95.5	3.0	486	2	A38308	atK protein (US94	1397	94.5	3.0	301	2	D87684	probable transcrip
1325	95.5	3.0	501	2	S76563	hypothetical prote	1398	94.5	3.0	358	2	A61188	hypothetical prote
1326	95.5	3.0	507	1	A46713	erythropoietin rec	1399	94.5	3.0	376	2	H82988	conserved hypothet
1327	95.5	3.0	553	2	C75318	hypothetical prote	1400	94.5	3.0	393	2	E82283	probable amidase P
1328	95.5	3.0	570	2	A48836	fibropellin c prec	1401	94.5	3.0	464	2	AB3557	hypothetical prote
1329	95.5	3.0	571	2	T43456	hypothetical prote	1402	94.5	3.0	569	2	T19128	hypothetical prote
1330	95.5	3.0	573	2	B70726	probable secb - My	1403	94.5	3.0	630	2	A39344	tumor-associated m
1331	95.5	3.0	624	2	T49366	myocyte-specific e	1404	94.5	3.0	665	2	E75461	probable cell wall
1332	95.5	3.0	630	2	T31798	hypothetical prote	1405	94.5	3.0	708	2	JC4364	gelatinase B (EC 3
1333	95.5	3.0	650	2	S44806	FI0E9.6 protein -	1406	94.5	3.0	719	2	T33170	hypothetical prote
1334	95.5	3.0	685	2	C56591	E75 B steroid rece	1407	94.5	3.0	860	2	I48839	tenascin-X - mouse
1335	95.5	3.0	710	1	S70965	serine/threonine-s	1408	94.5	3.0	921	2	S42617	collagen alpha 1(I
1336	95.5	3.0	722	2	T23359	hypothetical prote	1409	94.5	3.0	985	2	T06049	hypothetical prote
1337	95.5	3.0	749	2	E87599	hypothetical prote	1410	94.5	3.0	1006	2	T00050	hypothetical prote
1338	95.5	3.0	790	1	TVHUTT	nerve growth facto	1411	94.5	3.0	1092	1	JN0635	neural cell adhesi
1339	95.5	3.0	880	2	D89756	protein T23E7.2b [	1412	94.5	3.0	1191	2	T13850	gene u-shaped prot
1340	95.5	3.0	943	2	E84429	probable receptor-	1413	94.5	3.0	1487	1	EDBEE1	immediate-early pr
1341	95.5	3.0	987	2	A54092	protein-tyrosine k	1414	94.5	3.0	1690	1	CGHUIB	collagen alpha 4(I
1342	95.5	3.0	1027	2	I38759	zinc finger/leucin	1415	94.5	3.0	2062	2	G96602	probable receptor
1343	95.5	3.0	1054	2	A30239	hydroxymethylgluta	1416	94.5	3.0	2302	2	T14328	protein-tyrosine-p

1417 94.5 3.0 2386 1 FNHU
1418 94.5 3.0 2484 2 T26216
1419 94.5 3.0 2607 2 T26215
1420 94 3.0 157 2 T20234
1421 94 3.0 263 2 S57346
1422 94 3.0 277 2 E72564
1423 94 3.0 293 2 T22919
1424 94 3.0 329 2 T10064
1425 94 3.0 338 2 S28004
1426 94 3.0 346 2 S76923
1427 94 3.0 356 2 A96826
1428 94 3.0 421 2 T38309
1429 94 3.0 456 2 A40492
1430 94 3.0 466 2 A36389
1431 94 3.0 476 2 B45997
1432 94 3.0 522 2 S41819
1433 94 3.0 559 2 C75286
1434 94 3.0 590 2 B36789
1435 94 3.0 639 2 I61719
1436 94 3.0 648 2 S50856
1437 94 3.0 677 2 JC7303
1438 94 3.0 693 1 A41090
1439 94 3.0 791 2 S67265
1440 94 3.0 811 2 T36581
1441 94 3.0 862 2 S51493
1442 94 3.0 865 1 D70986
1443 94 3.0 878 1 A40091
1444 94 3.0 898 2 A40114
1445 94 3.0 918 2 JC4361
1446 94 3.0 927 2 A48085
1447 94 3.0 939 2 C70876
1448 94 3.0 979 2 A70848
1449 94 3.0 1007 2 G96606
1450 94 3.0 1137 2 G70868
1451 94 3.0 1236 2 E70977
1452 94 3.0 1320 2 JC5630
1453 94 3.0 1331 2 A48954
1454 94 3.0 1335 2 T18289
1455 94 3.0 1429 2 T13720
1456 94 3.0 1549 2 T11974
1457 94 3.0 1560 2 T00800
1458 94 3.0 2153 2 T30074
1459 93.5 3.0 172 2 D41132
1460 93.5 3.0 278 2 T27610
1461 93.5 3.0 299 2 G70784
1462 93.5 3.0 305 2 T46721
1463 93.5 3.0 352 2 T06482
1464 93.5 3.0 362 2 S61924
1465 93.5 3.0 391 2 I50702
1466 93.5 3.0 458 2 B87335
1467 93.5 3.0 461 1 A35356
1468 93.5 3.0 490 2 AG1107
1469 93.5 3.0 522 2 T36501
1470 93.5 3.0 530 2 A53437
1471 93.5 3.0 556 2 T42100
1472 93.5 3.0 577 2 T18116
1473 93.5 3.0 662 2 T46005
1474 93.5 3.0 691 2 B75622
1475 93.5 3.0 718 2 T05840
1476 93.5 3.0 719 2 F96577
1477 93.5 3.0 854 2 A96574
1478 93.5 3.0 909 1 QRX1L2
1479 93.5 3.0 919 2 F83257
1480 93.5 3.0 998 2 T35745
1481 93.5 3.0 1121 2 JC7329
1482 93.5 3.0 2109 2 E89066
1483 93.5 3.0 2150 2 T3247
1484 93.5 3.0 2159 2 T32497
1485 93.5 3.0 2295 2 C88369
1486 93.5 3.0 3375 2 T19821
1487 93 3.0 209 2 T02262
1488 93 3.0 221 2 T07079
1489 93 3.0 235 2 PC2022

1490 93 3.0 328 2 S01359
1491 93 3.0 338 2 S38030
1492 93 3.0 384 2 H70580
1493 93 3.0 413 2 AH2743
1494 93 3.0 416 2 G97524
1495 93 3.0 438 2 G87675
1496 93 3.0 453 2 B42093
1497 93 3.0 465 2 B82515
1498 93 3.0 558 2 T50742
1499 93 3.0 560 1 JC4795
1500 93 3.0 586 2 H86914

ALIGNMENTS

RESULT 1

JC5239

insulin-like growth factor acid-labile chain - baboon

C:Species: Papio sp. (baboon)

C>Date: 17-Apr-1997 #sequence_revision 09-May-1997 #text_change 09-May-1997

C:Accession: JC5239

R:Delhanty, P.; Baxter, R.C.

Biochem. Biophys. Res. Commun. 227, 897-902, 1996

A:Title: The cloning and expression of the baboon acid-labile subunit of the insulin-like

A:Reference number: JC5239; MUID:97040714; PMID:8886027

A:Contents: liver

A:Accession: JC5239

A:Molecule type: mRNA

A:Residues: 1-605

C:Comment: This factor is structurally related to proinsulin and have insuline-like metal

Query Match 10.3%; Score 322; DB 2; Length 605;

Best Local Similarity 36.2%; Pred. No. 2.6e-11;

Matches 100; Conservative 39; Mismatches 97; Indels 40; Gaps 11;

QY 7 LLLPLLLL-LALG-----PGVQG-----CPSGGCGCQPO-----TVFCTARQGT 45

Db 8 LALALLLSWALGPRSLLEGAEPTGPEAGPACATCACSYDDEVNELSVFCSSRNLTR 67

QY 46 VPRDVPDVTGLVYFENGITMLDASSFAGLGLQLLDLSQNTIASILRLPLLL----- 98

Db 68 LPDGPFGTQALWLDNSNLSIPPAAFRNLSSLAFLNQGQGLGLE-PQALLGLENLCH 126

QY 99 LDLSHNSLALPGILDTANVEALRAGLG---LQQLDEGLFSRLRNLDLVDNDQLER 155

Db 127 LHLERNQLRSLAVGTF--AYTPALALLGLSNRNLSRLDEGLFEGGLNLDLNGWNSLAV 184

QY 156 VP-PVIRGLRGLTRLRAGNTRIAQLRPEDLAGLALQELDVNSLSLQALPGDLSGLFPR 214

Db 185 LPDAAFRGLGLRLVLAGN-RLAYLQPALFSGLAELRELDLSRNALRAKANVFAQLPR 243

QY 215 LFLAAARNPFCVPLSMFG---PWVRESHVTLA 246

Db 244 LQKYLDRNLIAAVAPGAFGLKALRWLDLSHRVA 279

RESULT 2

A41915

insulin-like growth factor-binding complex acid-labile chain precursor - human

N:Alternate names: Acid-labile Subunit (AUS)

C:Species: Homo sapiens (man)

C>Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 09-Jul-2004

C:Accession: A41915

R:Leong, S.R.; Baxter, R.C.; Camerato, T.; Dai, J.; Wood, W.I.

Mol. Endocrinol. 6, 870-876, 1992

A:Title: Structure and functional expression of the acid-labile subunit of the insulin-li

A:Reference number: A41915; MUID:92357025; PMID:1379671

A:Accession: A41915

A:Status: preliminary

A:Molecule type: mRNA; protein

A:Residues: 1-605 <LEO>

A:Cross-references: UNIPROT:P35858; GB:M86826; NID:g184807; PIDN:AAA36047.1; PID:g184808

Db 16 PELWLLWAAARLGATACPALCTCT-GTTVDCHGTGLQAIPKNI PRINTERLELNGNIT 74
Qy 66 MLDASSFAGLPGLQLLDLSQNIASLRPLRLLLDLSHNSLLALEPGLL-DTANVEALRL 124
Db 75 RIHKNDPAGLQKRLVQLMENQIG-----AVERGAFDDMKELERLRL 116
Qy 125 AGLGLQQLDEGLFSLRLNLHDLVSDNOLERVP-PVIRGLRGLRLRLAGNTRIAQLRPE 183
Db 117 NRNLQVLPPELLFQNNQALSRLDLSNSLQAVPKAFRGATDLKNLQDKX-QISCIIEG 175
Qy 184 DLAGLAALQELDVNSLSLQALPGDLGLFPLRLLLAAARNPNCVPLSWFPGWVRSHV 243
Db 176 AFRALRGLEVLTLNNNITTPVSSFNHMPKLRFLRLSHNLFCDCHLAWLSQWLQ-RP 234
Qy 244 TLASPEETRCHPPPKNAGRLLELDYDFGCPATTTATVTPTRPVVREPTALSSSLAPT 303
Db 235 TIGL--FTQCSGPASRLGNAVQKSEFSCGGEAAQVPA-----CTLSSGSCPA 284
Qy 304 WLSPTAPATEAPSPSTAPPTVGPVPOQ-----DCPPSTCLNGGTCHLG----- 348
Db 285 MCSCSNGIVDCRGKGLTAIPANLPETWTEIRLELNGIKSIIP-----GAFSPYR 333
Qy 349 -----TRHRLACLCPGFGTGLXCESQMGQOTRPSPTVTPRPPRSITLGIIEPVS--PT 399
Db 334 KLRRIDLNSNNQIAETAPDAFOGL-----RSLNSILVLYGNKITDLPR 374
Qy 400 SLRVLQRYLOGSSVOLRSBLRTVRLNLSGPD--KRLVTILRLPA-----SLASYTTQL 450
Db 375 GVFGGLY-----TLQLLLLNANKINCIRPDFAFDQLQNLSSLYDNKIQSLARGTFTSL 428
Qy 451 RPNATYSVCVMP 462
Db 429 RAIOTLHLAQN 440

RESULT 7
A53531
oncofetal trophoblast glycoprotein 5T4 precursor - human
N:Alternate names: oncofetal antigen 5T4
C:Species: Homo sapiens (man)
C:Date: 27-Jun-1994 #sequence_revision 27-Jun-1994 #text_change 09-Jul-2004
C:Accession: A53531; S40087
R:Myers, K.A.; Rahi-Saund, V.; Davison, M.D.; Young, J.A.; Cheater, A.J.; Stern, P.L.
J. Biol. Chem. 269, 9319-9324, 1994
A:Title: Isolation of a cDNA encoding 5T4 oncofetal trophoblast glycoprotein. An antigen
A:Reference number: A53531; MUID:94179356; PMID:8132670
A:Accession: A53531
A>Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-420 <MEY>
A:Cross-references: UNIPROT:Q13641; EMBL:Z29083; NID:G435654; PIDN:CAA82324.1; PID:G4356
C:Keywords: duplication; glycoprotein; transmembrane protein
F:1-31/Domain: signal sequence #status predicted <SIG>
F:32-420/Product: oncofetal trophoblast glycoprotein 5T4 #status predicted <MAT>

Query Match 8.4%; Score 264.5; DB 2; Length 420;
Best Local Similarity 28.1%; Pred. No. 3.5e-08;
Matches 103; Conservative 44; Mismatches 121; Indels 99; Gaps 15;
Qy 2 CSRVLP-----LLPLLLLLALG-----PGVQGCPS 26
Db 5 CSRGPAAGDGRRLRLRLALVLLGWSSSSPTSSASSFSSSAFFLASAVSAQPLPDQCPA 64
Qy 27 GCQCSQ-PQTVCTARQCTTVPRDPVPPDTVGLYFENGITMLDASSFAGLP---GLQLLD 82
Db 65 LCECEAAATVKCVNRNLTEVPTDLPAYVRNLFLTGNQLAVLPAGAFARRPPLAELAALN 124
Qy 83 LSQNIQIASLR-----IPRILLLDLSHNSILALEPGLIDTANVEALRLAGLGLQQLDEGL 136
Db 125 LSGSRLEVRAGAFHFLPSLRQLDLSHNPDLADLSPFAFGSNASV-----SAPSP 175
Qy 137 FSLRLNLHDLVSNOLSR-----VPPVI--RGLRGLTRLRLAGNTRIAQLRPEADL 188

Db 176 VELILN-HIVPDEQRNRSFEGMWVAALLAGRALQGLRLELASN-HFLYLPDVLQAQL 233
Qy 189 AALQELDVNSLSLQALP-----GDISGLFPPRLRLAA 220
Db 234 PSRLHLDLSNNSLSLTYYVSRNLTHLESLEHEDNALKVLHNGTFLAELQGL-PIRVF-L 291
Qy 221 ARPNFCVCLPSWFGPMWRSHVTLASPEETRCHFPKPNAGRLLELDYDFGCG---PA 276
Db 292 DNPFWCCHMDMVMVTLKETEV-VQKDRILTCAYPEKMRNRVLLLENSADLDCDPIIPP 350
Qy 277 TTTTATV 283
Db 351 SLQTSYV 357

RESULT 8
MEGF5 protein - rat
N:Alternate names: slit protein homolog
C:Species: Rattus norvegicus (Norway rat)
C:Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 09-Jul-2004
C:Accession: T13953
R:Nakayama, M.; Nakajima, D.; Nagase, T.; Nomura, N.; Seki, N.; Ohara, O.
Genomics 51, 27-34, 1998
A:Title: Identification of high-molecular-weight proteins with multiple EGF-like motifs
A:Reference number: Z14126; MUID:98360089; PMID:9693030
A:Accession: T13953
A>Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-1523 <NAK>
A:Cross-references: UNIPROT:O88280; EMBL:AB011531; NID:G3449291; PIDN:BAA32461.1; PID:G34
C:Genetics: MEGF5
C:Superfamily: fruit fly slit protein; EGF homology; leucine-rich alpha-2-glycoprotein re

Query Match 8.3%; Score 261; DB 2; Length 1523;
Best Local Similarity 26.3%; Pred. No. 2.4e-07;
Matches 93; Conservative 41; Mismatches 126; Indels 94; Gaps 14;
Qy 24 CPSCQCSQPTVCTARQCTTVPRDPVPPDTVGLYFENGITMLDASSFAGLPGLQLLDL 83
Db 725 CPEQCTCVE-TVVRCSNRGLHTLPKGMKPKDVTLYLEGHLTAV----- 767
Qy 84 SQNIASLRPLRLLLDLSHNSLLALEPGLIDTANVEALRLAGLGLQQLDEGLFSLRLNL 143
Db 768 -PKELSTFR--QTLIDLNSNS-----ISMLTNHTFSNMSHL 801
Qy 144 HDLVDSDNOLERVP-PVIRGLRGLTRLRLAGNTRIAQLRPEADLQALQELDVNSLSLQ 202
Db 802 STLILSYNRLRCIPVHAFNGLSRLVLTGHN-----DISSVPEGSFNDLTSL-- 850
Qy 203 ALPGDLSGLFPRLRLAAARNPNCVCLPSWFGWVRSHVTLASPEETRCHFPKPNAGR 262
Db 851 -----HLALGINPLHDCSLRWLSEWIKAGY---KEPGTARCSPESMADR 893
Qy 263 LILLELDYDFGCPATTTATVTPTRPVVREPTALSSSLAPTTLWLSPTAPATEAPSPSTAP 322
Db 894 LLTTPTPHRFQCKG-----PVDINIVAKNACLSS--PCKNNGTCSQDPVEQVRCPTCP 944
Qy 323 PTVGVPVPOQDC--PPSTCL-----NGGTCHLGTRHRH--LACLCEPGETGLYCE 367
Db 945 YSY-----KGKDCIVPINTCVNQPCQHGTCILSHSRDGFSCSCLPLFEQORCE 994

RESULT 9
B36665
slit protein 2 precursor - fruit fly (Drosophila melanogaster)
C:Species: Drosophila melanogaster
C:Date: 30-Apr-1991 #sequence_revision 30-Apr-1991 #text_change 02-Aug-2002
C:Accession: B36665
R:Rothberg, J.M.; Jacobs, J.R.; Goodman, C.S.; Artavanis-Tsakonas, S.
Genes Dev. 4, 2169-2187, 1990
A:Title: slit: an extracellular protein necessary for development of midline glia and con

A:Reference number: A36665; MUID:91099665; PMID:2176636

A:Accession: B36665

A:Status: preliminary

A:Molecule type: mRNA

A:Residues: 1-1469 <ROT>

A:Cross-references: GB:X53959

C:Genetics:

A:Gene: FlyBase:sl1

A:Cross-references: FlyBase:FBgn003425

C:Superfamily: fruit fly slit protein; EGF homology; leucine-rich alpha-2-glycoprotein <PAH1>

F:101-124/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR1>

F:125-148/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR2>

F:149-172/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR3>

F:173-196/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR4>

F:197-220/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR5>

F:228-272/Domain: proteoglycan carboxyl-terminal homology <PCS1>

F:288-313/Domain: proteoglycan amino-terminal homology <PAH2>

F:323-346/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR6>

F:347-370/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR7>

F:371-394/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR8>

F:395-418/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR9>

F:419-442/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR10>

F:450-494/Domain: proteoglycan carboxyl-terminal homology <PCS2>

F:512-537/Domain: proteoglycan amino-terminal homology <PAH3>

F:547-571/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR11>

F:572-595/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR12>

F:596-619/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR13>

F:620-643/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR14>

F:651-695/Domain: proteoglycan carboxyl-terminal homology <PCS3>

F:708-733/Domain: proteoglycan amino-terminal homology <PAH4>

F:743-766/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR15>

F:767-790/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR16>

F:846-890/Domain: proteoglycan carboxyl-terminal homology <PCS4>

F:1028-1061/Domain: EGF homology <EGF>

F:1068-1099/Domain: EGF homology <EGF2>

F:1115-1148/Domain: EGF homology <EGF1>

Query Match

Best Local Similarity 8.1%; Score 255.5; DB 2; Length 1469;

Matches 105; Conservative 52; Mismatches 168; Indels 165; Gaps 14;

QY	24	CPSCGCSQPQVCTARQTTVPDRVP-----PDTVGLY 58
DB	519	CPAMCHC-EGTTVDCTGRKKEIPDRIPHTLLNDNELGRISDGLFGRPLPHLVKLE 577
QY	59	VFENGITMLDASSFAGLPGQLLDLSONOIAS-----LRLPRLLLDLSHNSLLALEPG 112
DB	578	LKRNQUTGIEPNAFEAGASHIQELQGENKIKEISNKNFGLHQLKTLNLDYDQISCVMPG 637
QY	113	ILDTAN-----VEALRLAGLGLQLODEGLFSRLNHLHDLV--- 148
DB	638	SEHLNLSLTLNLASPNFNCNCHLAWFAECVRKSLSLNGGAARCGAPSKYRDVQIKDLPHS 697
QY	149	-----SDNQLERPVP-----PV----- 159
DB	698	EPKCSSENSEGLGDCGCPSCCTCTGTWVACSRNQLKEIPRGIPARTSELYLESNEIEQI 757
QY	160	-----TGLRGLTRLRAGNTRIAQLRPEDLAGLAALQELDVS-----NL 199
DB	758	HYERIKHLSRSLRLDLS-NNQITLSNFTANLTKLSTLIIISYNKLCQIQRHALLSGLNLI 816
QY	200	SLQALPGDLSGLFPR-----LRLAAARNPFNCVPLSPGFWVRSHVTLASPEET 251
DB	817	RVVSLHGNRISMLPEGSFEDLKSLLTHIALGSLNPLYCDGLKWFSDWIKLDYV---EPGTA 873
QY	252	RCHFPKPNAGRLLELDYADFQCPATTTATTTTPTRPVVREPTALSSSLAPTWSLPATA 311
DB	874	RCAEPQMDKLLILSPSSFFVCRGRVRNDILAKCNACFEQPCQNAQCVC-----ALFQ 927
QY	312	TRAPSPPTAPPTVGVPOP-----QDCPSTCLNGTCHLGRHHLACLCPGG 360
DB	928	REYQC-----LCQPGVHGKHECFMIDACYGNPCRNNTACTVLEGRFSQCAFG 976

QY 361 FTGLYCSEQM 370

DB 977 YTGARCTNI 986

RESULT 10

A36665

slit protein 1 precursor - fruit fly (Drosophila melanogaster)

C:Species: Drosophila melanogaster

C:Date: 30-Apr-1991 #sequence revision 30-Apr-1991 #text_change 02-Aug-2002

C:Accession: A36665; A31640; S13523

R:Rothberg, J.M.; Jacobs, J.R.; Goodman, C.S.; Artavanis-Tsakonas, S.

Genes Dev. 4, 2169-2187, 1990

A:Title: slit: an extracellular protein necessary for development of midline glia and con

A:Reference number: A36665; MUID:91099665; PMID:2176636

A:Accession: A36665

A:Status: preliminary

A:Molecule type: mRNA

A:Residues: 1-1480 <ROT>

A:Cross-references: GB:X53959; NID:98614; PIDN:CAA37910.1; PID:98615

R:Rothberg, J.M.; Hartley, D.A.; Walther, Z.; Artavanis-Tsakonas, S.

Cell 55, 1047-1059, 1988

A:Title: slit: An EGF-homologous locus of D. melanogaster involved in the development of

A:Reference number: A31640; MUID:89077533; PMID:3144436

A:Accession: A31640

A:Molecule type: DNA

A:Residues: 881-1182, 'G', 1185-1404, 'GT', 1463-1464, 'YHA' <RO2>

A:Cross-references: GB:M23543; NID:9340939; PID:9514357

C:Genetics:

A:Gene: FlyBase:sl1

A:Cross-references: FlyBase:FBgn0003425

A:Introns: 1351/3

C:Superfamily: fruit fly slit protein; EGF homology; leucine-rich alpha-2-glycoprotein r

C:Keywords: alternative splicing; growth factor

F:66-91/Domain: proteoglycan amino-terminal homology <PAH1>

F:101-124/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR1>

F:125-148/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR2>

F:149-172/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR3>

F:173-196/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR4>

F:197-220/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR5>

F:228-272/Domain: proteoglycan carboxyl-terminal homology <PCS1>

F:288-313/Domain: proteoglycan amino-terminal homology <PAH2>

F:323-346/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR6>

F:347-370/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR7>

F:371-394/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR8>

F:395-418/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR9>

F:419-442/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR10>

F:450-494/Domain: proteoglycan carboxyl-terminal homology <PCS2>

F:512-537/Domain: proteoglycan amino-terminal homology <PAH3>

F:547-571/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR11>

F:572-595/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR12>

F:596-619/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR13>

F:620-643/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR14>

F:651-695/Domain: proteoglycan carboxyl-terminal homology <PCS3>

F:708-733/Domain: proteoglycan amino-terminal homology <PAH4>

F:743-766/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR15>

F:767-790/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR16>

F:791-814/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR17>

F:815-838/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR18>

F:846-890/Domain: proteoglycan carboxyl-terminal homology <PCS4>

F:1028-1061/Domain: EGF homology <EGF>

F:1068-1099/Domain: EGF homology <EGF2>

F:1115-1148/Domain: EGF homology <EGF1>

Query Match

Best Local Similarity 8.1%; Score 255.5; DB 2; Length 1480;

Matches 105; Conservative 52; Mismatches 168; Indels 165; Gaps 14;

QY 24 CPSCGCSQPQVCTARQTTVPDRVP-----PDTVGLY 58

DB 519 CPAMCHC-EGTTVDCTGRKKEIPDRIPHTLLNDNELGRISDGLFGRPLPHLVKLE 577

```
Qy 59 VFENGITWLDASSFAGLPGQLQLDLSONQIAS-----LRLPRLLLLDLSHNSLLALEPG 112
Db 578 LKRNLQGTIEPNAFEGASHIQELQGENKIKIEINSMFLGHQJLQKLTNLNDYDQISCVWMPG 637
Qy 113 ILDTAN-----VEALRLAGLGLQQLDEGLFGRRLNLHLDV--- 148
Db 638 SFEHLNSLTSNLASNPENCNCHLAWFAECVYRKKSGLNGGAARCAPSKVRDVQIKDLPHS 697
Qy 149 -----SDNQLRVP---PV----- 159
Db 698 EFKCSSENSEGLGDGYCPPTCTGTGVACSRNQLKEIPRGIPAEFTSELYESNEIEQI 757
Qy 160 ----IRGLRGITRLRLAGNTRIAQLRPEDLAGLAALQELDVS-----NL 199
Db 758 HYERIRHRSUTRLDLS--NNQITILSNVTFANLTKLSTLIISYKNLQCLQRHALSGLNNL 816
Qy 200 SLOALPGDLSGLFPR-----LRLAAARNPNCVCLPSWFGPVPVWVRESHVTLASPEET 251
Db 817 RVVSLHGNNRISMLPEGSPEDLKSALTHIALGNSPNLYCDGLKWFSDWIKLDV---EPCIA 873
Qy 252 RCHPPKNAGRLILLELDYADFGCPATTTTATVPTTRPVVREPTALSSSLAPTWLSPTAPA 311
Db 874 RCBPEQMKDLILSTPSSSFVCRGRVRNDILAKNCAFEOPCQNOAQC-----ALPG 927
Qy 312 TEAPSPPTAPTTCVPVPOP-----QDCPPSTCLNGTCHLGRHHLACLCPG 360
Db 928 REYQC-----LCQPGYHGKHCFEMIDACYGNPCRNATCTVLEBGRFSCQCAPG 976
Qy 361 FTGLYCESQM 370
Db 977 YTGARCEINI 986

RESULT 11
JC7973
Synleucin - human
C:Species: Homo sapiens (man)
C:Date: 25-Aug-2003 #sequence_revision 25-Aug-2003 #text_change 15-Sep-2003
C:Accession: JC7973
R:Wang, W.; Yang, Y.; Li, L.; Shi, Y.
Biochem. Biophys. Res. Commun. 305, 981-988, 2003
A:Title: Synleucin, a novel leucine-rich repeat protein that increases the intensity of
A:Reference number: JC7973; PMID:12767927
A:Accession: JC7973
A:Molecule type: mRNA
A:Residues: 1-622 <WAN>
A:Cross-references: GB:AY280614
C:Comment: This protein that is a single span transmembrane leucine-rich repeat protein
e intensity of pleiotropic cytokine responses as an adhesion protein or a receptor.
C:Genetics:
A:Gene: slrn
A:Map position: 5q12.1
C:Keywords: cytokine; leucine-rich repeat; synleucin; transmembrane protein

Query Match 8.0%; Score 251; DB 2; Length 622;
Best Local Similarity 23.1%; Pred. No. 3.3e-07;
Matches 107; Conservative 52; Mismatches 142; Indels 162; Gaps 13;

Qy 2 CSRVPLLPLLLALLALGPVGQCPGCGCQSQPQTVCFTARQGTTPRDPVPPDTVGLYVFE 61
Db 10 CLRFLVVTCTVLLLLHKEIIGCSSVCQLCTGRQINCENGLGISIPKKNFPPESTVFLITG 69
Qy 62 NGITWLDASSFAGLPGQLQLDLSONQI-----ASLRPLRLLLDLSHNSLLALEPG--- 112
Db 70 NNISVINESELTGLHSLVALYLDNSNIIYVYPKAFVQLRHLVYFLFLNNFIKRLDPGIFK 129
Qy 113 -----ILDTAN 118
Db 130 GLLNLRNLYQYNQSVFVRGVFNLDVSVQVYINLTQRNRLTVLGSCTFVGWVALRILDLN 189
Qy 119 VEALRLAGLGLQQLD-----EGLFSRLRLNLHLDVSDNQLERVPP-VIR 161
Db 190 NNILRISSGFQHLNLAFLYGLSNLTQVPSNAFEVLKSLRRLSLSHNPTEAIOQPAFK 249
```

```
Qy 162 GLRGLTRLAGNTRIAQLRPEDLAGLAALQELDVSNLQALPGD----- 207
Db 250 GLANLEYL-LKNSRIIRNVTRODGFSGINNKLHLLSHNDLENLNSDTFSLKNIILYKLD 308
Qy 208 -----LSGLFPR-----LRLAAARNPNCVCPCLS 232
Db 309 RNRITISDNTDFENMGASLKLNLNLFNNLTALHPRVLPKPLSSLIHLQANSNPWECNCKLL 368
Qy 233 WFGPWVRESHVTLASPEETRCHFPKAGRLLELDYADFGCPATTTTATVPTTRPVVRE 292
Db 369 GLRDWLASSAITL---NIYQNPSPMRGALRYINITN---CVTSSINVSRAWAVVKS 420
Qy 293 P-----TAL-----SSSLAPT-----W-LSPTAPA 311
Db 421 PHIHKTALMMAWHKVITNGSPLENTETENITFWERIPTSPA 463

RESULT 12
NBHUA2
Leucine-rich alpha-2-glycoprotein - human
C:Species: Homo sapiens (man)
C:Date: 27-Nov-1985 #sequence_revision 27-Nov-1985 #text_change 05-Dec-1998
C:Accession: A03211
R:Takahashi, N.; Takahashi, Y.; Putnam, F.W.
Proc. Natl. Acad. Sci. U.S.A. 82, 1906-1910, 1985
A:Title: Periodicity of leucine and tandem repetition of a 24-amino acid segment in the
A:Reference number: A03211; MUID:85166241; PMID:3856868
A:Molecule type: protein
A:Accession: A03211
A:Residues: 1-312 <TAK>
C:Comment: The function of this plasma protein is not known.
C:Superfamily: leucine-rich alpha-2-glycoprotein; leucine-rich alpha-2-glycoprotein repeat
F:58-81/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR1>
F:82-105/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR2>
F:106-129/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR3>
F:130-153/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR4>
F:154-177/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR5>
F:178-201/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR6>
F:202-225/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR7>
F:226-249/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR8>
F:262-309/Domain: proteoglycan carboxyl-terminal homology <PCH>
F:2/Binding site: carbohydrate (Thr) (covalent) #status experimental
F:8-21,268-294/Disulfide bonds: #status experimental
F:44,151,234,290/Binding site: carbohydrate (Asn) (covalent) #status experimental
F:271/Binding site: carbohydrate (Asn) (covalent) #status absent

Query Match 7.8%; Score 243.5; DB 1; Length 312;
Best Local Similarity 27.5%; Pred. No. 4.1e-07;
Matches 89; Conservative 36; Mismatches 94; Indels 105; Gaps 9;

Qy 25 PSGCQ-----CSQPTVCTARQGTTPRDPVPPDTVGLYVFPENGITWLDASSFA 73
Db 5 PKDCQVFRSDHSGSISQCP-----AEIPGLPADTVHLAVEFNNLTLPANLLQ 54
Qy 74 GLPGQLQLDLSONQIASLR-----LPRLLLDLSHNSLLALEPGI-----LOTANVEA 121
Db 55 GASKLQELHLSNGLESPEFLRPVQLRVLDLTRNALTGLPPGLFOASATLDTVLKE 114
Qy 122 -----LRLAGLGLQQLDEGLFSLRLNLHLDVSDNQLERVPP-VIR 161
Db 115 NQLEVLVSWHLGKALGHLDLSGNLRKURKPPGLIANFTLRTLDLGNQLETUPPDILR 174
Qy 162 GLRGLTRLAGN-----TRIAQLRPEDLAGLAALQELDVS 198
Db 175 GPLQLERLHLEGNQLVGLKDLLLPQDRLVYLFNGNKLARVAAGAFGLQRLDMLDLSN 234
Qy 199 LSLQALPG-----DLSGULFPRILRLAAARNPNCVCPISWFGPWTRES 241
Db 235 NSLASVPEGLWASLQPNWDMRDGFDISG-----NPWICDQNLSDLRYRLQAA 282
Qy 242 HVTLASPEETRCRCHPPKNAGRLLL 265
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Db      127 LFLDHNALRGIDQNFQKLVNLQELALNQNLDFLPASLFTNLENLKLLDLSGNNLTSLP 188
Qy      111 PGLIDT-ANVEARLAGLGQLQDEGL-----FSRLRNLDH 145
Db      187 KGLLGAQAKLERULLHSNRVLSLDSGLNSLGALTTELQFHRNHRSIAPGAFDRLPNLS 246
Qy      146 LDVS-----DNQLERVPPIRG----- 162
Db      247 LTLSRNLHAFPSALFLSHSNLTLLTLPENFAELPGVLFGMGLOBLMLNRTOLTRTP 306
Qy      163 ---LRGLTRLRAGNT---RIAQLRPEDLAGLAALQELDVA----- 196
Db      307 AAARFNLSRLRYLGVTLSPLSALPQGAFOGLGELOVALAHNSNGLTALPDGLLRGLGKL 366
Qy      197 -----SNSUS-----LQALPGDLSGLFPRLRLAARNPFNCV 228
Db      367 QVSLRRNRRLRALPRALFRNLSSLESVOLDDHNQLETLPGDVFGALPRLTEVILGHNSWRC 426
Qy      229 CPISWFQFWRESHVITLASPEE-TRCHFPKPKNAGRLLELDYADPGCPATTTATVPTR 287
Db      427 CGLGPFFGLWLQR-HLGIUVGGEEPPRCAGPGAHAHLPLMALPGDAECPG-----PRGP 478
Qy      288 PVVREPTALSSSLAPTWLSPTAPATEAPSPSTAPPVTGP 327
Db      479 P--PRPADSSS-----EAPVHPALPNSE 503

RESULT 14
JC7763
neuronal leucine-rich repeat protein-3 - rat
C/Species: Rattus norvegicus (Norway rat)
C/Date: 01-Feb-2002 #sequence_revision 01-Feb-2002 #text_change 09-Jul-2004
C/Accession: JC7763
R/Fukunachi, K.; Matsuoaka, Y.; Kitanaka, C.; Kuchino, Y.; Tsuda, H.
Biochem. Biophys. Res. Commun. 287, 257-263, 2001
A>Title: Rat neuronal leucine-rich repeat protein-3: Cloning and regulation of
A/Reference number: JC7763; PMID:11549284
A/Contents: Fibrosarcoma cells
A/Accession: JC7763
A/Molecule type: mRNA
A/Residues: 1-707 <PUK>
A/Cross-references: UNIPROT:Q9BSY6; GB:A291437
C/Comment: This protein, a new member of the neuronal leucine-rich repeat prot
in protein-protein interaction and functions as a cell adhesion molecule or so
C/Genetics:
A/Gene: nlrr-3
C/Keywords: cell adhesion

Query Match          7.6%; Score 237; DB 2; Length 707;
Best Local Similarity 20.7%; Pred. No. 2.4e-06;
Matches 127; Conservative 80; Mismatches 222; Indels 186; Gaps 22

Qy      6 PLLPLPLLALLAGPVQG-----CPSGCCCS-----QPQTVFCTAROGTTVP 47
Db      5 PLQTHVLLGLAITALVOAGDKVKDCPOLCTCEIRPWFTPRSIFYMEASTVDCNDLGLINFP 64
Qy      48 RDVPDPDTVGIVFENGITMTLDASSFAGLP-GLQLLDLSONOIASL----- 91
Db      65 ARUPADTQILLIQTNNTARIETHST-DFFVNLTGLDLSQNLSVVNTNVQMSQLLSVY 122
Qy      92 -----RLPRLLLDLS-----HNSLLALEPGIL----- 114
Db      123 LEENKLTPEKCYGLYSNLQELVYNHLLSAISPGAVFVGLHNLRLHLNSNRQLMINSK 182
Qy      115 ---DTANVEAIRL-----AGLCQLQDDEGLFSRLRNHOLD 147
Db      183 WFEALPNLEITIMLDGNPILRIKMNFQPLKLRSVIAGINLTVEPDDALVGENLESI 242
Qy      148 VSDNLERVP-----PVIRGLRG----- 165
Db      243 FYDNRLMKVQVALQKAYNLKFLDLNKNPINRIERGDFSNMLHLKELGINNPVELSVIDS 302
Qy      166 ----LTFRLRLAGNTRIQLRPEDLAGLAALQELDVDNSLSLQAL-PGDLSGLFPRLR 216
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GenCore version 5.1.6

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OM protein - protein search, using sw model

Run on: May 12, 2005, 18:59:25 ; Search time 179 Seconds
(without alignments)
1710.745 Million cell updates/sec

Title: US-09-943-780-69

Perfect score: 3135

Sequence: 1 MCSRVPLLLPLLLLLALGPG.....PLMGPPGCLQSLHAKPYI 598

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1612378 seqs, 512079187 residues

Total number of hits satisfying chosen parameters: 1612378

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1500 summaries

Database : Uniprot_03:*

1: uniprot_sprot:*

2: uniprot_trembl:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	3135	100.0	598	2	Q6UXL5
2	3083.5	98.4	673	2	Q6UXL4
3	3078.5	98.2	673	2	Q6EMK4
4	2697.5	86.0	601	2	Q96CX1
5	2491	79.5	673	2	Q8BJJ0
6	2490	79.4	673	2	Q8R2G5
7	2484	79.2	673	2	Q9CZT5
8	1213.5	38.7	661	2	Q6DF55
9	359.5	11.5	635	2	Q6PJG9
10	351	11.2	636	2	Q8OXU8
11	348	11.1	636	2	Q8K3C4
12	341	10.9	660	2	Q8BLU0
13	339	10.8	521	2	Q8BAH1
14	332	10.6	637	2	Q6A073
15	330	10.5	653	1	LRR4 HUMAN
16	329.5	10.5	648	2	Q6DDY0
17	328.5	10.5	627	2	Q6UY10
18	325.5	10.4	570	2	Q8BLK2
19	324	10.3	626	2	Q8BLY3
20	322.5	10.3	682	2	Q6DJD2
21	322.5	10.3	811	2	Q7L0X0
22	322.5	10.3	887	2	Q75139
23	322	10.3	605	1	ALS_PAPHA
24	321	10.2	628	2	Q9BTN0
25	321	10.2	797	2	Q9UGS3
26	320	10.2	660	1	FLR2 HUMAN
27	320	10.2	674	2	Q6RKD8
28	318.5	10.2	652	1	LRR4 MOUSE
29	317	10.1	778	2	Q6NDI6
30	312.5	10.0	648	2	Q70AK3
31	311.5	9.9	420	2	Q7M6Z0

32	310.5	9.9	420	2	Q80WD1	Q80wd1 rattus norv
33	310.5	9.9	646	1	FLR1 HUMAN	Q9nzu1 homo sapien
34	308	9.8	627	2	Q8NC95	Q8nc95 homo sapien
35	308	9.8	649	1	FLR3 HUMAN	Q9nzu0 homo sapien
36	307.5	9.8	674	2	Q8WVA2	Q8wva2 homo sapien
37	307	9.8	637	2	Q68P21	Q68f21 xenopus lae
38	306.5	9.8	730	2	Q6EHP6	Q6ehp6 mus musculus
39	305.5	9.7	730	2	Q6US92	Q6us92 mus musculus
40	302.5	9.6	420	2	Q6X813	Q6x813 homo sapien
41	302.5	9.6	420	2	Q86UN3	Q86un3 homo sapien
42	302	9.6	605	1	ALS HUMAN	P35858 homo sapien
43	302	9.6	605	2	Q8TAY0	Q8tay0 homo sapien
44	299.5	9.6	677	2	Q28256	Q28256 canis famli
45	298.5	9.5	649	2	Q8BGT1	Q8bgt1 mus musculus
46	298.5	9.5	663	2	Q6ZPQ1	Q6zpq1 mus musculus
47	295.5	9.4	640	2	Q8BGH8	Q8bgh8 m mus muscu
48	295.5	9.4	640	2	Q8C031	Q8c031 mus musculus
49	293.5	9.4	809	2	Q9DBY4	Q9dby4 m mus muscu
50	292.5	9.3	636	2	Q7L0N3	Q7l0n3 homo sapien
51	292.5	9.3	640	2	Q9HCJ2	Q9hcj2 homo sapien
52	292.5	9.3	837	2	Q80TV0	Q80tv0 mus musculus
53	289.5	9.2	713	2	Q8N182	Q8n182 homo sapien
54	288.5	9.2	372	2	Q7T2W3	Q7t2w3 brachydanio
55	287.5	9.2	713	2	Q6UXM0	Q6uxm0 homo sapien
56	284.5	9.1	457	2	Q6WZD1	Q6wzd1 brachydanio
57	283.5	9.0	603	2	Q70211	Q70211 rattus norv
58	283.5	9.0	713	1	LRN5 HUMAN	O75325 homo sapien
59	283	9.0	1515	2	Q9DE37	Q9de37 brachydanio
60	282.5	9.0	745	2	Q6UXK2	Q6uxk2 homo sapien
61	282.5	9.0	785	2	Q9P263	Q9p263 homo sapien
62	282	9.0	626	1	GPBA_HUMAN	P07359 homo sapien
63	281.5	9.0	603	1	ALS_RAT	P35859 rattus norv
64	281	9.0	738	2	Q90Z45	Q90z45 gallus gall
65	278.5	8.9	603	1	ALS MOUSE	P70389 mus musculus
66	278.5	8.9	687	2	Q9JIL0	Q9jil0 mus musculus
67	278	8.9	321	2	Q8E4K4	Q8e4k4 petromyzon
68	278	8.9	1531	1	SLT1_RAT	O82779 rattus norv
69	276	8.8	1531	1	SLT1_MOUSE	Q80tr4 mus musculus
70	276	8.8	2623	2	Q6WRI0	Q6wri0 homo sapien
71	273.5	8.7	593	2	Q6UY18	Q6uy18 homo sapien
72	273.5	8.7	1504	1	SLIT_DROME	P24014 drosophila
73	273	8.7	785	2	Q6ZPQ3	Q6zpq3 mus musculus
74	271.5	8.7	342	2	Q9IXL1	Q9ixl1 mus musculus
75	271	8.6	473	1	RT4R_HUMAN	Q9bzi6 homo sapien
76	271	8.6	473	1	RT4R_MACEA	Q9n0e3 macaca fasc
77	270.5	8.6	541	2	Q6PK41	Q6pk41 homo sapien
78	270	8.6	478	2	Q6WZD2	Q6wzd2 brachydanio
79	270	8.6	1534	1	SLT1_HUMAN	O75093 homo sapien
80	268	8.5	417	2	Q8E4J7	Q8e4j7 petromyzon
81	267.5	8.5	1512	2	Q9DE36	Q9de36 brachydanio
82	266.5	8.5	1529	2	Q7ZXI2	Q7zx12 xenopus lae
83	266	8.5	460	2	Q6IPL6	Q6ipl6 homo sapien
84	266	8.5	734	2	Q35930	Q35930 mus musculus
85	264.5	8.4	420	2	Q13641	Q13641 homo sapien
86	261.5	8.3	347	1	A2GL_HUMAN	P02750 homo sapien
87	261	8.3	1523	1	SLT3_RAT	O82880 rattus norv
88	258	8.2	321	2	Q6E4D1	Q6e4d1 petromyzon
89	258	8.2	1523	1	SLT3_HUMAN	O75094 homo sapien
90	257	8.2	739	2	Q8BKM5	Q8bkm5 mus musculus
91	255.5	8.1	1095	2	Q90XG4	Q90xg4 gallus gall
92	254.5	8.1	1286	2	Q7QCT2	Q7qct2 anopheles g
93	254	8.1	1523	1	SLT3_MOUSE	Q9wvb4 mus musculus
94	253.5	8.1	589	2	Q6GQU6	Q6gqu6 mus musculus
95	253.5	8.1	1410	2	Q20204	Q20204 caenorhabdi
96	253	8.1	426	2	Q8BQA4	Q8bqa4 mus musculus
97	253	8.1	567	1	GPV_MOUSE	O08742 mus musculus
98	252	8.0	311	2	Q6E4L1	Q6e4l1 petromyzon
99	252	8.0	426	2	Q9QYD9	Q9qyd9 rattus norv
100	252	8.0	567	2	Q9QZU3	Q9qzu3 mus musculus
101	251.5	8.0	788	2	Q9CYK3	Q9cyk3 mus musculus
102	251	8.0	426	2	Q9Z0L0	Q9z0l0 mus musculus
103	251	8.0	473	1	RT4R_MOUSE	Q99pi8 mus musculus
104	251	8.0	542	2	Q9N4G6	Q9n4g6 caenorhabdi

105	251	8.0	622	2	Q6ZM15	Q6zw15	homo sapien	178	220.5	7.0	528	2	Q80U08	Q80u08	mus musculus
106	251	8.0	622	2	Q7Z2Q7	Q7z2q7	homo sapien	179	220.5	7.0	733	2	Q24250	Q24250	drosophila
107	251	8.0	1021	2	Q9V430	Q9v430	drosophila	180	220.5	7.0	822	1	SLK6_HUMAN	SLK6_HUMAN	homo sapien
108	249.5	8.0	789	2	Q9BE71	Q9be71	macaca fasc	181	220.5	7.0	841	2	Q6AW93	Q6aw93	homo sapien
109	249.5	8.0	832	2	Q9ULH4	Q9ulh4	homo sapien	182	220	7.0	514	2	Q8BZ81	Q8bz81	m mus muscu
110	249.5	8.0	2597	2	Q6WRH9	Q6wrh9	rattus norv	183	220	7.0	582	2	Q8BGJ7	Q8bgj7	m mus muscu
111	248	7.9	481	1	NYX_HUMAN	Q9gzus	homo sapien	184	220	7.0	582	2	Q8BZA0	Q8bza0	mus musculus
112	247.5	7.9	1521	1	SIT2_MOUSE	Q9rib9	mus musculus	185	219	7.0	334	2	Q6P7C4	Q6p7c4	rattus norv
113	247.5	7.9	1529	1	SIT2_MOUSE	Q948l3	homo sapien	186	218.5	7.0	618	1	LR21_MOUSE	LR21_MOUSE	mus musculus
114	247.5	7.9	1530	2	Q90WZ3	Q90wz3	xenopus lae	187	217.5	6.9	288	2	Q8BR15	Q8br15	mus musculus
115	245.5	7.8	331	2	Q91W20	Q91w20	mus musculus	188	217	6.9	637	2	Q6DCV7	Q6dcv7	xenopus lae
116	245	7.8	321	2	Q6E4J9	Q6e4j9	petromyzon	189	216	6.9	263	2	Q6E4C7	Q6e4c7	petromyzon
117	245	7.8	426	2	Q6PE98	Q6pe98	mus musculus	190	215.5	6.9	331	1	FLIB_AGRBL	FLIB_AGRBL	agkistrodon
118	245	7.8	708	2	Q8IYQ6	Q8iyq6	homo sapien	191	215.5	6.9	737	2	Q9VU51	Q9vu51	drosophila
119	244.5	7.8	718	2	Q73675	Q73675	xenopus lae	192	215	6.9	743	2	Q6PLM7	Q6plm7	homo sapien
120	244.5	7.8	766	1	SIT2_RAT	Q9wvc1	rattus norv	193	214.5	6.8	441	2	Q86UN2	Q86un2	homo sapien
121	244.5	7.8	833	2	Q80TG9	Q80tg9	mus musculus	194	214.5	6.8	716	2	Q8IYV5	Q8iyv5	homo sapien
122	244	7.8	458	2	Q6WZD3	Q6wzd3	brachydanio	195	214.5	6.8	716	2	Q6UXK5	Q6uxk5	homo sapien
123	244	7.8	567	1	GPV_RAT	Q8770	rattus norv	196	214.5	6.8	730	2	Q9P231	Q9p231	homo sapien
124	244	7.8	708	2	Q9H3W5	Q9h3w5	homo sapien	197	214.5	6.8	1535	2	Q23991	Q23991	drosophila
125	243.5	7.8	476	1	NYX_MOUSE	P83503	mus musculus	198	214	6.8	295	2	Q6E4C9	Q6e4c9	petromyzon
126	243	7.8	321	2	Q6E4L4	Q6e4l4	petromyzon	199	214	6.8	516	1	LRN2_HUMAN	LRN2_HUMAN	homo sapien
127	243	7.8	708	2	Q6I9V8	Q6i9v8	homo sapien	200	214	6.8	2828	2	Q9NR39	Q9nr39	homo sapien
128	242.5	7.7	388	2	Q6ZM54	Q6zm54	brachydanio	201	213.5	6.8	238	2	Q6E4J5	Q6e4j5	petromyzon
129	242.5	7.7	545	1	CBP8_HUMAN	P2792	homo sapien	202	213.5	6.8	359	1	CHAD_HUMAN	CHAD_HUMAN	homo sapien
130	242.5	7.7	718	2	Q6PCF4	Q6pcf4	xenopus lae	203	213.5	6.8	361	1	CHAD_BOVIN	CHAD_BOVIN	bos taurus
131	242	7.7	808	2	Q7FVZ3	Q7fzv3	anopheles g	204	213	6.8	438	2	Q7TQ96	Q7tq96	rattus norv
132	242	7.7	1216	2	Q7PZJ7	Q7pzz7	anopheles g	205	213	6.8	716	2	Q61809	Q61809	mus musculus
133	241.5	7.7	311	2	Q6E4L3	Q6e4l3	petromyzon	206	213	6.8	721	2	Q69Z10	Q69z10	mus musculus
134	240	7.7	473	1	RT4R_RAT	Q9m75	rattus norv	207	212	6.8	445	2	Q80WD0	Q80wd0	rattus norv
135	240	7.7	560	1	GPV_HUMAN	P40197	homo sapien	208	212	6.8	939	2	Q7Q3F0	Q7q3f0	anopheles g
136	239.5	7.6	370	2	Q8BGX3	Q8bgx3	m mus muscu	209	211.5	6.7	192	2	Q6E4I9	Q6e4i9	petromyzon
137	238	7.6	453	2	Q8EYX1	Q8eyx1	homo sapien	210	211.5	6.7	270	2	Q6E4L7	Q6e4l7	petromyzon
138	238	7.6	544	2	Q8UDV3	Q8udv3	spherooides	211	211	6.7	187	2	Q6E4I2	Q6e4i2	petromyzon
139	237.5	7.6	391	2	Q8D3K0	Q8d3k0	m mus muscu	212	211	6.7	513	2	Q86VH5	Q86vh5	homo sapien
140	237	7.6	370	2	Q8N967	Q8n967	homo sapien	213	211	6.7	581	2	Q9BGP6	Q9bgp6	macaca fasc
141	237	7.6	578	1	LR15_RAT	Q8r5m3	rattus norv	214	210.5	6.7	321	2	Q6E4I5	Q6e4i5	petromyzon
142	237	7.6	707	2	Q8ESV6	Q8esy6	rattus norv	215	210.5	6.7	4303	1	PKD1_HUMAN	PKD1_HUMAN	homo sapien
143	236	7.5	707	2	Q8CBG6	Q8cbg6	mus musculus	216	210	6.7	358	1	CHAD_RAT	CHAD_RAT	rattus norv
144	236	7.5	718	2	Q6P6Z7	Q6p6z7	xenopus lae	217	210	6.7	581	2	Q6N0A3	Q6n0a3	homo sapien
145	235.5	7.5	579	1	LR15_MOUSE	Q80x72	mus musculus	218	210	6.7	1028	2	Q865R7	Q865r7	mus scrofa
146	234	7.5	707	2	P978F0	Q80x72	mus musculus	219	209.5	6.7	214	2	Q6E4H0	Q6e4h0	petromyzon
147	233.5	7.4	298	2	Q6E4J4	P97860	mus musculus	220	209	6.7	211	2	Q6E4I3	Q6e4i3	petromyzon
148	233	7.4	1316	2	Q9VQZ5	Q6e4j4	petromyzon	221	209	6.7	257	2	Q6E4J6	Q6e4j6	petromyzon
149	231.5	7.4	840	1	SLK6_MOUSE	Q9vq25	drosophila	222	209	6.7	353	2	Q6UXK1	Q6uxk1	homo sapien
150	231	7.4	547	1	CBP8_MOUSE	Q9cbb9	mus musculus	223	209	6.7	358	1	CHAD_MOUSE	CHAD_MOUSE	mus musculus
151	231	7.4	707	2	Q642E4	Q642e4	rattus norv	224	209	6.7	1091	1	LIG1_MOUSE	LIG1_MOUSE	mus musculus
152	231	7.4	901	2	Q7QBW2	Q7qbw2	anopheles g	225	208.5	6.7	382	1	PRLP_HUMAN	PRLP_HUMAN	homo sapien
153	230	7.3	332	2	Q8QFN6	Q8qfn6	elaphe quad	226	208.5	6.7	382	2	Q6FHG6	Q6fhg6	homo sapien
154	230	7.3	332	2	Q8QFN7	Q8qfn7	elaphe quad	227	208.5	6.7	445	2	Q8K0S5	Q8k0s5	m reticulon
155	229.5	7.3	828	2	Q8C8T7	Q8c8t7	mus musculus	228	208.5	6.7	479	2	Q6X3Y5	Q6x3y5	brachydanio
156	229	7.3	581	1	LR15_HUMAN	Q8tf66	homo sapien	229	208.5	6.7	518	2	Q86VH4	Q86vh4	homo sapien
157	228.5	7.3	294	2	Q6E4L6	Q6e4l6	petromyzon	230	208.5	6.7	537	1	LG14_HUMAN	LG14_HUMAN	homo sapien
158	228.5	7.3	341	2	Q6ZSA7	Q6zsa7	homo sapien	231	208.5	6.7	590	2	Q6UXJ7	Q6uxj7	homo sapien
159	227.5	7.3	356	2	Q8BXQ3	Q8bxq3	mus musculus	232	208	6.6	649	2	Q9VK22	Q9vk22	drosophila
160	227	7.2	783	2	Q90XG2	Q90xg2	gallus gall	233	207.5	6.6	180	2	Q6E4F0	Q6e4f0	petromyzon
161	227	7.2	950	2	Q90Z44	Q90z44	gallus gall	234	207.5	6.6	518	2	Q6ZT31	Q6zt31	homo sapien
162	226.5	7.2	557	1	LG11_HUMAN	Q95970	homo sapien	235	207.5	6.6	1329	1	G124_MOUSE	G124_MOUSE	mus musculus
163	226.5	7.2	719	1	LRP5_HUMAN	Q96ni6	homo sapien	236	207	6.6	313	2	Q8N7C0	Q8n7c0	homo sapien
164	225.5	7.2	298	2	Q6E4J3	Q6e4j3	petromyzon	237	207	6.6	536	2	Q6PD02	Q6pd02	brachydanio
165	223	7.1	289	2	Q6E4C8	Q6e4c8	petromyzon	238	207	6.6	4293	2	Q8852	Q8852	mus musculus
166	222.5	7.1	413	2	Q642I5	Q642i5	mus musculus	239	206.5	6.6	270	2	Q6E4K6	Q6e4k6	petromyzon
167	222.5	7.1	557	1	LG11_RAT	Q8k4y5	rattus norv	240	206.5	6.6	274	2	Q6E4B9	Q6e4b9	petromyzon
168	222.5	7.1	792	1	Q90Z43	Q90z43	gallus gall	241	206.5	6.6	274	2	Q6E4C1	Q6e4c1	petromyzon
169	222	7.1	269	2	Q6E4L0	Q6e4l0	petromyzon	242	206.5	6.6	294	2	Q6E4L2	Q6e4l2	petromyzon
170	222	7.1	348	2	Q95J78	Q95j78	macaca fasc	243	206.5	6.6	423	2	Q8ND46	Q8nd46	homo sapien
171	221.5	7.1	557	1	LG11_MOUSE	Q9jial	mus musculus	244	206.5	6.6	606	2	Q7TT38	Q7tt38	mus musculus
172	221.5	7.1	719	1	LRP5_MOUSE	Q8bxa0	mus musculus	245	206.5	6.6	614	2	Q9DI70	Q9di70	mus musculus
173	221	7.0	1093	1	LG11_HUMAN	Q96jal	homo sapien	246	206	6.6	353	2	Q8WU48	Q8wu48	homo sapien
174	220.5	7.0	210	2	Q6E4M1	Q6e4m1	petromyzon	247	206	6.6	353	2	Q9UJX9	Q9ujx9	homo sapien
175	220.5	7.0	322	2	Q6E4K1	Q6e4k1	petromyzon	248	206	6.6	381	1	PRLP_BOVIN	PRLP_BOVIN	bos taurus
176	220.5	7.0	515	2	Q8BG33	Q8bga3	m mus muscu	249	206	6.6	428	2	O14498	O14498	homo sapien
177	220.5	7.0	515	2	Q8C8L1	Q8c8l1	mus musculus	250	206	6.6	581	2	Q95K18	Q95k18	macaca fasc

251	6.6	206	606	2	Q8BLC0	Q8b1c0 m mus muscu	324	193.5	6.2	378	2	Q8CAZ9	Q8caz9 mus musculu
252	6.6	206	606	2	Q8BZD4	Q8bd4 m mus muscu	325	193.5	6.2	421	2	Q9NT99	Q9nt99 homo sapien
253	205.5	206	212	2	Q6BDH2	Q6bdh2 petromyzon	326	193.5	6.2	433	2	Q6IDG7	Q6idg7 drosophila
254	205.5	6.6	479	2	Q6DRH6	Q6drh6 brachydanio	327	193.5	6.2	545	1	YK12_HUMAN	Q8n0v4 homo sapien
255	205.5	6.6	492	2	Q99KT6	Q99kt6 mus musculu	328	193.5	6.2	721	1	YK12_HUMAN	Q10690 mycobacteri
256	205.5	6.6	518	2	Q80XG9	Q80xg9 mus musculu	329	193.5	6.2	721	1	YK12_HUMAN	Q7t224 mycobacteri
257	205.5	6.6	591	2	Q8JZS8	Q8jzs8 mus musculu	330	193.5	6.2	893	2	Q96C25	Q96c25 homo sapien
258	205	6.5	614	2	Q9N008	Q9n008 macaca fasc	331	193.5	6.2	910	2	Q9HB75	Q9hb75 homo sapien
259	205	6.5	620	2	Q96FE5	Q96fe5 homo sapien	332	193.5	6.2	977	1	SLK3_MOUSE	Q9n493 homo sapien
260	205	6.5	740	1	CT75_HUMAN	Q8wt4 homo sapien	333	193.5	6.2	540	2	Q9NK84	Q9nk84 drosophila
261	204.5	6.5	463	2	Q8C1V9	Q8c1v9 mus musculu	334	193	6.2	550	2	Q9VJN8	Q9vjn8 drosophila
262	204	6.5	353	2	Q6QMY6	Q6qmy6 rattus norv	335	192.5	6.1	187	2	Q6B4D5	Q6b4d5 petromyzon
263	204	6.5	1173	2	Q9V7J8	Q9v7j8 drosophila	336	192.5	6.1	214	2	Q6B4G0	Q6b4g0 petromyzon
264	204	6.5	1306	2	Q6P4S1	Q6p4s1 xenopus lae	337	192.5	6.1	270	2	Q6B4K0	Q6b4k0 petromyzon
265	203.5	6.5	845	2	Q6A1I3	Q6a1i3 homo sapien	338	192.5	6.1	428	2	Q6CU68	Q6cu68 mus musculu
266	203.5	6.5	894	2	Q9VKG1	Q9vkg1 drosophila	339	192.5	6.1	575	2	Q23580	Q23580 caenorhabdi
267	203.5	6.5	1065	1	LIG2_HUMAN	Q94988 homo sapien	340	192.5	6.1	1093	2	Q6HA06	Q6ha06 crassostrea
268	203	6.5	269	2	Q6B4B6	Q6eb4b6 petromyzon	341	192	6.1	265	2	Q6B4K2	Q6eb4k2 petromyzon
269	203	6.5	317	2	Q7PR48	Q7pr48 anopheles g	342	192	6.1	273	2	Q6B4C5	Q6eb4c5 petromyzon
270	203	6.5	1514	2	Q6NN49	Q6nn49 drosophila	343	192	6.1	548	1	LG13_MOUSE	Q8k406 mus musculu
271	203	6.5	1514	2	Q9NBK9	Q9nbk9 drosophila	344	192	6.1	627	2	Q6UN14	Q6un14 leishmania
272	203	6.5	1514	2	Q9VUN0	Q9vun0 drosophila	345	191.5	6.1	187	2	Q6B4I7	Q6eb4i7 petromyzon
273	202.5	6.5	274	2	Q6B4J2	Q6eb4j2 petromyzon	346	191.5	6.1	204	2	Q6B4J8	Q6eb4j8 petromyzon
274	202.5	6.5	1476	2	Q7QJ29	Q7qj29 anopheles g	347	191.5	6.1	915	2	Q9ERV7	Q9erv7 mus musculu
275	202	6.4	1178	2	Q942T3	Q942t3 oryza sativ	348	191.5	6.1	980	1	SLK3_MOUSE	Q810b9 mus musculu
276	201.5	6.4	187	2	Q6E4D7	Q6e4d7 petromyzon	349	191.5	6.1	980	2	Q6NZM5	Q6nzm5 mus musculu
277	201.5	6.4	372	2	Q6CBR6	Q6cbr6 mus musculu	350	190.5	6.1	1238	2	Q6NR19	Q6nr19 drosophila
278	201.5	6.4	457	2	Q96OD1	Q96od1 drosophila	351	190.5	6.1	1535	2	Q9VPF0	Q9vpf0 drosophila
279	201.5	6.4	606	2	Q9BZ20	Q9bz20 homo sapien	352	190	6.1	191	2	Q6B4H3	Q6eb4h3 petromyzon
280	201.5	6.4	892	2	Q91644	Q91644 drosophila	353	190	6.1	733	1	CT75_MOUSE	P59383 mus musculu
281	201.5	6.4	1527	2	Q9VZ24	Q9vz24 drosophila	354	190	6.1	1059	2	Q6UXL7	Q6uxl7 homo sapien
282	201	6.4	213	2	Q6B4H6	Q6eb4h6 petromyzon	355	190	6.1	1119	2	Q6UXM1	Q6uxm1 homo sapien
283	201	6.4	218	2	Q6B4K9	Q6eb4k9 petromyzon	356	190	6.1	1346	2	Q9V477	Q9v477 drosophila
284	201	6.4	581	2	Q9BTR7	Q9btr7 homo sapien	357	190	6.1	2800	2	Q6XHB1	Q6xhb1 dictyosteli
285	201	6.4	602	2	Q9H9A6	Q9h9a6 homo sapien	358	189.5	6.0	1316	2	Q7Q168	Q7q168 anopheles g
286	200.5	6.4	845	1	SLK2_HUMAN	Q9h156 homo sapien	359	189	6.0	369	1	PGS1_MOUSE	P28653 mus musculu
287	200	6.4	653	2	Q02329	Q02329 caenorhabdi	360	189	6.0	369	1	PGS1_RAT	P47853 rattus norv
288	199.5	6.4	622	2	Q66HV9	Q66hv9 brachydanio	361	189	6.0	839	2	Q9SN46	Q9sn46 arabisdopsis
289	199	6.3	846	1	SLK2_MOUSE	Q810c0 mus musculu	362	189	6.0	1392	2	Q9VAD1	Q9vad1 drosophila
290	199	6.3	1328	2	Q21043	Q21043 caenorhabdi	363	189	6.0	4311	2	Q7YQK5	Q7yqk5 canis famil
291	198.5	6.3	320	2	Q6YN44	Q6yn44 homo sapien	364	188.5	6.0	369	2	Q6GM15	Q6gm15 brachydanio
292	198.5	6.3	601	2	Q9HCZ4	Q9hcz4 homo sapien	365	188.5	6.0	410	2	Q9DDZ7	Q9ddz7 petromyzon
293	198.5	6.3	617	1	LR21_RAT	Q9jnm2 rattus norv	366	188.5	6.0	440	1	OMGP_MOUSE	Q63912 mus musculu
294	198.5	6.3	873	2	Q7XR24	Q7xr24 oryza sativ	367	188	6.0	369	1	PGS1_CANFA	Q02678 canis famil
295	198.5	6.3	1331	1	G124_HUMAN	Q96pe1 homo sapien	368	188	6.0	522	2	Q8K377	Q8k377 m lirtm1 pr
296	198	6.3	363	2	Q7SYE5	Q7syey5 brachydanio	369	188	6.0	310	2	Q9DDZ8	Q9ddz8 petromyzon
297	197.5	6.3	280	2	Q6B4K3	Q6eb4k3 petromyzon	370	187.5	6.0	363	2	Q9H5G9	Q9h5g9 homo sapien
298	197.5	6.3	300	2	Q6B4K8	Q6eb4k8 petromyzon	371	187.5	6.0	425	2	Q9VGH2	Q9vgn2 drosophila
299	197.5	6.3	537	2	Q9VE49	Q9ve49 drosophila	372	187.5	6.0	601	2	Q7SXW3	Q7sxw3 brachydanio
300	197.5	6.3	548	1	LG13_HUMAN	Q8n145 homo sapien	373	187.5	6.0	615	2	Q9VZ84	Q9vz84 drosophila
301	197.5	6.3	1321	1	G125_HUMAN	Q81wk6 homo sapien	374	187	6.0	735	2	Q6E114	Q6e114 mus musculu
302	197	6.3	345	2	Q9HBL6	Q9hbl6 homo sapien	375	187	6.0	368	1	PGS1_XENLA	Q91b75 xenopus lae
303	197	6.3	694	2	Q6VXX5	Q6vxx5 oryza sativ	376	186.5	5.9	521	2	Q7ZU34	Q7zu34 leptospira
304	196	6.3	263	2	Q6B4D0	Q6eb4d0 petromyzon	377	186.5	5.9	734	2	Q7Q696	Q7q696 anopheles g
305	196	6.3	3638	1	PLP1_MOUSE	Q15142 homo sapien	378	186.5	5.9	839	1	TLR4_HUMAN	Q00206 homo sapien
306	195.5	6.2	378	1	PLP1_MOUSE	Q9jk53 mus musculu	379	186.5	5.9	839	1	TLR4_HUMAN	Q9p2v4 homo sapien
307	195.5	6.2	917	2	Q86PM1	Q86pm1 drosophila	380	186.5	5.9	839	1	TLR4_PANPA	Q9tnc0 pan paniscu
308	195.5	6.2	931	2	Q9VW16	Q9vw16 drosophila	381	186	5.9	273	2	Q6B4B4	Q6eb4b4 petromyzon
309	195	6.2	614	2	Q6NUK3	Q6nuk3 homo sapien	382	186	5.9	440	1	OMGP_HUMAN	P23515 homo sapien
310	195	6.2	620	2	Q6UXM3	Q6uxm3 homo sapien	383	186	5.9	552	2	Q9VT44	Q9vt44 drosophila
311	195	6.2	826	2	Q7Q1P7	Q7q1p7 anopheles g	384	186	5.9	579	2	Q9LGG8	Q9lgg8 oryza sativ
312	195	6.2	837	1	SLK4_HUMAN	Q81w52 homo sapien	385	186	5.9	623	1	LR21_HUMAN	Q9p2v4 homo sapien
313	194.5	6.2	369	2	Q65Z91	Q65z91 gallus gall	386	185.5	5.9	466	2	Q661W3	Q661w3 xenopus lae
314	194.5	6.2	693	2	Q723D0	Q723d0 homo sapien	387	185.5	5.9	953	2	Q6MFB7	Q6mf87 parachlamyd
315	194.5	6.2	699	1	ECW2_HUMAN	Q94769 homo sapien	388	185	5.9	389	2	Q6BFP5	Q6bfp5 brachydanio
316	194.5	6.2	737	2	Q965M3	Q965m3 caenorhabdi	389	185	5.9	512	2	Q6FEZ8	Q6fez8 homo sapien
317	194.5	6.2	881	2	Q965M2	Q965m2 caenorhabdi	390	184.5	5.9	565	2	Q8C030	Q8c030 mus musculu
318	194.5	6.2	1447	2	Q16779	Q16779 caenorhabdi	391	184.5	5.9	799	2	Q9V964	Q9v964 drosophila
319	194.5	6.2	1630	1	LAP4_HUMAN	Q14160 homo sapien	392	184.5	5.9	839	2	Q69ZV6	Q69zv6 mus musculu
320	194	6.2	263	2	Q6B4C0	Q6eb4c0 petromyzon	393	184.5	5.9	843	1	TLR4_HORSE	Q9myw3 equus cabal
321	194	6.2	936	2	Q9V9V6	Q9v9v6 drosophila	394	184.5	5.9	957	1	SLK5_MOUSE	Q810b7 mus musculu
322	193.5	6.2	186	2	Q6B4H8	Q6eb4h8 petromyzon	395	184.5	5.9	1007	2	Q65X53	Q65x53 oryza sativ
323	193.5	6.2	377	1	PLP1_RAT	Q9eqp5 rattus norv	396	184.5	5.9	1214	2	Q69JN6	Q69jn6 oryza sativ

397	184	5.9	187	2	Q6E4M5	Q6e4m5 petromyzon	470	178	5.7	364	2	Q6GJ59	Q66j59 xenopus lae
398	184	5.9	253	2	Q6E4K5	Q6e4k5 petromyzon	471	178	5.7	522	2	Q96DN1	Q96dni homo sapien
399	184	5.9	263	2	Q6E4K5	Q6e4k5 petromyzon	472	178	5.7	522	2	Q86UE6	Q86ue6 homo sapien
400	184	5.9	368	1	PGS1_HUMAN	P21810 homo sapien	473	178	5.7	894	2	Q9BJD6	Q9bjd6 stronglyloe
401	184	5.9	489	2	Q7QF76	Q7qf76 anopheles g	474	178	5.7	1049	1	TLR7_HUMAN	Q9nyk1 homo sapien
402	184	5.9	552	2	Q6K6X6	Q6k6x6 oryza sativ	475	178	5.7	1052	2	Q9Y4C4	Q9y4c4 homo sapien
403	184	5.9	837	1	SLK4_MOUSE	Q810b8 mus musculu	476	178	5.7	1257	2	Q7PNF8	Q7pnf8 anopheles g
404	183.5	5.9	187	2	Q6E4F6	Q6e4f6 petromyzon	477	177.5	5.7	1050	1	TLR7_MOUSE	P58681 mus musculu
405	183.5	5.9	287	2	Q9W2B9	Q9w2b9 drosophila	478	177.5	5.7	1360	2	Q7KTA0	Q7kta0 drosophila
406	183.5	5.9	292	2	Q6NYT6	Q6nyt6 brachydanio	479	177.5	5.7	1530	2	Q6BD07	Q6bd07 homo sapien
407	183.5	5.9	601	2	Q6TLH1	Q6tlh1 brachydanio	480	177.5	5.7	2300	2	Q7RVM0	Q7rvm0 neuropora
408	183.5	5.9	727	2	Q6A0E8	Q6a0e8 mus musculu	481	177.5	5.7	2493	1	CYAA_USTMA	P49606 ustilago ma
409	183.5	5.9	795	1	TLR1_MOUSE	Q8epg1 mus musculu	482	177	5.6	187	2	Q6E4H5	Q6e4h5 petromyzon
410	183.5	5.9	841	1	TLR4_PIG	Q88y56 sus scrofa	483	177	5.6	343	1	LUM_COTJA	Q8e67 coturnix co
411	183.5	5.9	1537	1	LAP1_HUMAN	Q96nw7 homo sapien	484	176.5	5.6	187	2	Q6E4M0	Q6e4m0 petromyzon
412	183	5.9	540	2	Q9VU53	Q9vu53 drosophila	485	176.5	5.6	522	2	Q86SJ2	Q86sj2 homo sapien
413	183	5.9	568	2	Q6P3Y9	Q6p3y9 mus musculu	486	176.5	5.6	721	2	Q7PVZ6	Q7pvz6 anopheles g
414	183	5.8	662	1	GARP_HUMAN	Q14392 homo sapien	487	176.5	5.6	1495	1	LAP1_RAT	P70587 rattus norv
415	183	5.8	664	2	Q7ZT81	Q7zt81 oncorhynch	488	176.5	5.6	1756	2	Q6AWK8	Q6awk8 drosophila
416	182.5	5.8	187	2	Q6E4G1	Q6e4g1 petromyzon	489	176	5.6	503	2	Q8LJ87	Q8lj87 oryza sativ
417	182.5	5.8	187	2	Q8E4G7	Q8e4g7 petromyzon	490	176	5.6	623	2	Q95S21	Q95s21 drosophila
418	182.5	5.8	379	1	ASPN_HUMAN	Q9bxx1 homo sapien	491	176	5.6	1257	2	Q9VK28	Q9vk28 drosophila
419	182.5	5.8	384	2	Q6P528	Q6p528 homo sapien	492	176	5.6	1412	1	LAP2_HUMAN	Q96rt1 homo sapien
420	182.5	5.8	810	2	Q8T3J2	Q8t3j2 drosophila	493	175.5	5.6	440	2	Q7TNN3	Q7tnm3 rattus norv
421	182.5	5.8	811	2	Q9VK54	Q9vk54 drosophila	494	175.5	5.6	492	2	Q80ZD8	Q80zd8 mus musculu
422	182.5	5.8	828	1	TLR4_PONPY	Q8spe9 pongo pygma	495	175.5	5.6	638	2	Q69ZQ0	Q69zq0 mus musculu
423	182.5	5.8	837	2	Q8SPB8	Q8spe8 gorilla gor	496	175.5	5.6	700	2	Q7Q2W6	Q7q2w6 anopheles g
424	182.5	5.8	880	2	P91643	P91643 drosophila	497	175.5	5.6	1490	1	LAP1_MOUSE	Q80te7 mus musculu
425	182.5	5.8	958	1	SLK5_HUMAN	Q94991 homo sapien	498	175.5	5.6	3127	2	Q7PTD4	Q7ptd4 anopheles g
426	182	5.8	271	2	Q6E4C4	Q6e4c4 petromyzon	499	175	5.6	343	1	LUM_CHICK	P51890 gallus gall
427	182	5.8	369	1	PGS1_SHEEP	Q66390 ovis aries	500	175	5.6	429	2	Q8BJ09	Q8bj09 mus musculu
428	182	5.8	373	2	Q803T1	Q803t1 brachydanio	501	175	5.6	510	2	Q9BGY6	Q9bgy6 macaca fasc
429	182	5.8	428	2	Q8F3F8	Q8f3f8 leptospira	502	175	5.6	602	2	Q7Q0C5	Q7q0c5 anopheles g
430	182	5.8	532	2	Q96671	Q96671 drosophila	503	175	5.6	973	2	Q6KCC7	Q6kcc7 oncorhynch
431	182	5.8	722	2	Q7Q550	Q7q550 anopheles g	504	175	5.6	1173	2	Q7QHH1	Q7qhh1 anopheles g
432	182	5.8	1022	2	Q8HXV0	Q8hxv0 bos taurus	505	174.5	5.6	190	2	Q6E4E5	Q6e4e5 petromyzon
433	182	5.8	1029	2	Q866B2	Q866b2 bos taurus	506	174.5	5.6	512	2	Q9CQ76	Q9cq76 m mus muscu
434	181.5	5.8	180	2	Q8BPV0	Q8bpv0 mus musculu	507	174.5	5.6	602	2	Q78WQ9	Q78wq9 mus musculu
435	181.5	5.8	357	1	PGS2_CHICK	P28675 gallus gall	508	174.5	5.6	602	2	Q8BS83	Q8bs83 mus musculu
436	181.5	5.8	599	2	Q7T3H6	Q7t3h6 brachydanio	509	174.5	5.6	602	2	Q9CRC8	Q9crc8 mus musculu
437	181.5	5.8	2160	2	Q13328	Q13328 magnaporthe	510	174.5	5.6	605	2	Q6GPJ5	Q6gpj5 xenopus lae
438	181.5	5.8	2160	2	Q13488	Q13488 magnaporthe	511	174.5	5.6	795	1	TLR6_MOUSE	Q9epw9 mus musculu
439	181	5.8	372	1	PGS1_HORSE	Q64603 equus cabal	512	174.5	5.6	966	2	Q94J33	Q94ji3 oryza sativ
440	181	5.8	626	2	Q7QIF3	Q7qip3 anopheles g	513	174.5	5.6	1060	2	Q6ZGM3	Q6zgm3 oryza sativ
441	181	5.8	1013	2	Q8LQ10	Q8lq10 oryza sativ	514	174	5.6	535	2	Q8RX50	Q8rx50 brassica ni
442	180.5	5.8	371	2	Q6GLQ6	Q6glq6 xenopus lae	515	174	5.6	544	2	Q7Q2W5	Q7q2w5 anopheles g
443	180.5	5.8	385	2	Q8BMM6	Q8bmm6 mus musculu	516	174	5.6	859	1	TLR5_MOUSE	Q9jlf7 mus musculu
444	180.5	5.8	441	2	Q8IL70	Q8il70 drosophila	517	174	5.6	951	1	LGR4_RAT	Q9z2h4 rattus norv
445	180.5	5.8	584	2	Q6PGX3	Q6pgx3 brachydanio	518	173.5	5.5	353	2	Q640B1	Q640b1 xenopus tro
446	180.5	5.8	821	2	Q66PY3	Q66py3 homo sapien	519	173.5	5.5	364	2	Q6GNX8	Q6gnx8 xenopus lae
447	180.5	5.8	1443	2	Q9VJQ0	Q9vjq0 drosophila	520	173.5	5.5	421	1	QMD_HUMAN	Q99983 homo sapien
448	180	5.7	369	1	PGS1_BOVIN	P21809 bos taurus	521	173.5	5.5	440	2	Q7TQ25	Q7tq25 rattus norv
449	180	5.7	817	2	Q86P15	Q86p15 drosophila	522	173.5	5.5	537	1	LG14_MOUSE	Q8kl61 mus musculu
450	180	5.7	817	2	Q9VS84	Q9vs84 drosophila	523	173.5	5.5	806	2	Q7TPC5	Q7tpc5 mus musculu
451	180	5.7	843	2	Q7ZTG5	Q7ztg5 gallus gall	524	173.5	5.5	826	1	TLR4_PAPAN	Q9tsp2 papio anubi
452	179.5	5.7	187	2	Q6E4D6	Q6e4d6 petromyzon	525	173.5	5.5	2300	2	CYAA_NEUCR	Q01631 neuropora
453	179.5	5.7	1117	2	Q6P1C6	Q6pic6 mus musculu	526	173	5.5	269	2	Q6E4C2	Q6e4c2 petromyzon
454	179.5	5.7	4283	2	Q9ERV0	Q9erv0 rattus norv	527	173	5.5	360	1	PGS2_HORSE	Q46542 equus cabal
455	179	5.7	273	2	Q6E4B8	Q6e4b8 petromyzon	528	173	5.5	470	2	Q9V354	Q9v354 drosophila
456	179	5.7	534	2	Q9VT89	Q9vt89 drosophila	529	173	5.5	853	2	Q8CB40	Q8cb40 mus musculu
457	179	5.7	700	2	Q9P244	Q9p244 homo sapien	530	173	5.5	925	1	GLHR_ATEL	P35409 anthopleura
458	179	5.7	742	2	Q9BJD4	Q9bjd4 stronglyloe	531	173	5.5	1459	2	Q8WRE4	Q8wre4 anopheles g
459	179	5.7	905	1	TLR3_MOUSE	Q99mb1 mus musculu	532	172.5	5.5	163	2	Q6E4E2	Q6e4e2 petromyzon
460	178.5	5.7	190	2	Q6E4D8	Q6e4d8 petromyzon	533	172.5	5.5	276	2	Q7PSP4	Q7psp4 anopheles g
461	178.5	5.7	356	1	PGS2_COTJA	Q9de68 coturnix co	534	172.5	5.5	353	1	KERA_CHICK	O42235 gallus gall
462	178.5	5.7	443	2	Q67VV7	Q67vv7 oryza sativ	535	172.5	5.5	353	1	KERA_COTJA	Q9de66 coturnix co
463	178.5	5.7	483	2	Q7PJD0	Q7pjd0 anopheles g	536	172.5	5.5	359	1	PGS2_HUMAN	P07585 homo sapien
464	178.5	5.7	493	2	Q8IWI1	Q8iwi1 homo sapien	537	172.5	5.5	451	2	Q7QIS8	Q7qis8 anopheles g
465	178.5	5.7	493	2	Q86WK6	Q86wk6 homo sapien	538	172.5	5.5	823	2	Q68FM6	Q68fm6 mus musculu
466	178.5	5.7	1024	1	POPC_RALSO	Q9rbs2 ralstonia s	539	172.5	5.5	823	2	Q8CCW8	Q8ccw8 mus musculu
467	178.5	5.7	1104	2	Q7XUH4	Q7xuh4 oryza sativ	540	172.5	5.5	1851	1	LAP4_DROME	Q7kry7 drosophila
468	178.5	5.7	1310	1	G125_MOUSE	Q7tt36 mus musculu	541	172.5	5.5	4256	2	Q8MJF3	Q8mjf3 canis famil
469	178	5.7	187	2	Q6E4H4	Q6e4h4 petromyzon	542	172	5.5	347	2	Q7ZUT1	Q7zut1 brachydanio

543	172	5.5	577	2	Q8N3K5	Q8n3k5 homo sapien	616	166.5	5.3	743	2	Q95RV9	Q95rv9 drosophila
544	172	5.5	1134	2	Q65510	Q65510 arabidopsis	617	166.5	5.3	743	2	Q8KTF2	Q8ktf2 listeria mo
545	171.5	5.5	378	2	Q9V900	Q9v900 drosophila	618	166.5	5.3	744	2	Q8KHN1	Q8khn1 listeria mo
546	171.5	5.5	683	1	LRCA_HUMAN	Q75427 homo sapien	619	166.5	5.3	744	2	Q8KI88	Q8ki88 listeria mo
547	171.5	5.5	858	1	TLR5_HUMAN	Q75427 homo sapien	620	166.5	5.3	744	2	Q8KTF1	Q8ktf1 listeria mo
548	171.5	5.5	859	1	LRR5_MOUSE	Q8bgr2 mus musculus	621	166.5	5.3	744	2	Q8KTF5	Q8ktf5 listeria mo
549	171.5	5.5	1589	2	Q9U0Q9	Q9u0q9 metarhizium	622	166.5	5.3	744	2	Q8KTF8	Q8ktf8 listeria mo
550	171	5.5	360	1	PGS2_PIG	Q9uxed9 sus scrofa	623	166.5	5.3	746	2	Q8KTF3	Q8ktf3 listeria mo
551	171	5.5	360	1	Q6DV11	Q6dv11 gekko japon	624	166.5	5.3	800	1	INLA_LISMF	P251k6 listeria mo
552	171	5.5	833	1	TLR4_FELCA	P58727 felis silve	625	166.5	5.3	800	1	INLA_LISMO	P251k6 listeria mo
553	170.5	5.4	246	2	Q6B4J1	Q6e4j1 petromyzon	626	166.5	5.3	1000	2	Q7QF88	Q7qf88 anopheles g
554	170.5	5.4	373	1	ASPN_MOUSE	Q99mq4 mus musculus	627	166.5	5.3	1012	2	Q95VI6	Q95vi6 asserina pe
555	170.5	5.4	741	2	Q8KTF7	Q8ktf7 listeria mo	628	166.5	5.3	1115	2	Q652D9	Q652d9 oryza sativ
556	170.5	5.4	1031	1	CHH252	Q8hz52 felis silve	629	166.5	5.3	1280	2	Q95YI7	Q95y17 anopheles g
557	170.5	5.4	2145	1	CYAA_PODAN	Q01513 podospora a	630	166.5	5.3	1292	2	Q7QHP7	Q7qhp7 anopheles g
558	170	5.4	187	2	Q6A4D9	Q6e4d9 petromyzon	631	166.5	5.3	3204	2	Q6X248	Q6x248 bovine herp
559	170	5.4	364	1	LR19_MOUSE	Q8bzt5 mus musculus	632	166	5.3	163	2	Q6B4F8	Q6b4f8 petromyzon
560	170	5.4	907	1	LGR5_HUMAN	Q75473 homo sapien	633	166	5.3	426	2	Q72TC3	Q72tc3 leptospira
561	170	5.4	1024	2	Q84IE6	Q84ie6 raietonia s	634	166	5.3	806	2	Q6F690	Q6f690 rattus norv
562	170	5.4	1471	2	Q7KW92	Q7kw92 drosophila	635	166	5.3	835	1	TLR4_RAT	Q9qx05 rattus norv
563	169.5	5.4	352	1	KERA_BOVIN	Q62702 bos taurus	636	166	5.3	1030	2	Q865R8	Q865r8 sus scrofa
564	169.5	5.4	366	2	Q8BX06	Q8bx06 m mus muscu	637	166	5.3	1110	2	Q94LN2	Q94ln2 oryza sativ
565	169.5	5.4	493	2	Q8OZD7	Q8ozd7 rattus norv	638	166	5.3	1110	2	Q7G768	Q7g768 oryza sativ
566	169.5	5.4	760	2	Q970K5	Q970k5 arabidopsis	639	166	5.3	1221	2	Q9N5Z3	Q9n5z3 caenorhabdi
567	169.5	5.4	876	2	Q67WES	Q67wes oryza sativ	640	165.5	5.3	360	1	PGS2_BOVIN	P21793 bos taurus
568	169.5	5.4	991	2	Q6R5N8	Q6r5n8 mus musculus	641	165.5	5.3	360	1	PGS2_CANFA	Q29393 canis famil
569	169.5	5.4	1271	2	Q8VI44	Q8vi44 mus musculus	642	165.5	5.3	526	2	Q7XJS3	Q7xjs3 arabidopsis
570	169.5	5.4	1271	2	Q9JJ28	Q9jj28 mus musculus	643	165.5	5.3	1256	1	FLII_DROME	Q24020 drosophila
571	169	5.4	217	2	Q6GWJ6	Q6gwj6 felis silve	644	165.5	5.3	1269	1	FLIH_HUMAN	Q13045 homo sapien
572	169	5.4	354	1	PGS2_MOUSE	P28654 mus musculus	645	165	5.3	902	2	Q7RYP2	Q7ryp2 neurospora
573	169	5.4	360	2	Q6J0Y6	Q6j0y6 paralichthy	646	165	5.3	994	2	Q9C637	Q9c637 arabidopsis
574	169	5.4	474	2	Q7QI16	Q7qi16 anopheles g	647	165	5.3	1135	2	Q7XSL2	Q7xsl2 oryza sativ
575	169	5.4	757	2	Q69MS7	Q69ms7 oryza sativ	648	165	5.3	1168	2	Q7QHH4	Q7qhh4 anopheles g
576	169	5.4	839	2	Q9RX57	Q9rx57 deinococcus	649	164.5	5.2	455	2	Q7PSV7	Q7psv7 anopheles g
577	168.5	5.4	255	2	Q6GWJ3	Q6gwj3 felis silve	650	164.5	5.2	582	1	SHO2_HUMAN	Q9uc13 homo sapien
578	168.5	5.4	353	2	Q7RYS8	Q7rys8 xenopus lae	651	164.5	5.2	805	2	Q658W7	Q658w7 homo sapien
579	168.5	5.4	363	2	Q8CBA7	Q8cba7 mus musculus	652	164.5	5.2	819	2	Q659A9	Q659a9 homo sapien
580	168.5	5.4	523	2	Q7QHK8	Q7qhk8 anopheles g	653	164.5	5.2	858	1	LRR5_HUMAN	Q711w4 homo sapien
581	168.5	5.4	619	2	Q6K8K0	Q6k8k0 oryza sativ	654	164	5.2	257	1	LRR3_MOUSE	P59034 mus musculus
582	168.5	5.4	685	2	Q6T545	Q6t545 listeria mo	655	164	5.2	426	2	Q8P2I3	Q8p2i3 leptospira
583	168.5	5.4	728	2	Q6T546	Q6t546 listeria mo	656	164	5.2	570	2	Q8L3T8	Q8l3t8 oryza sativ
584	168.5	5.4	744	2	Q8KTF6	Q8ktf6 listeria mo	657	164	5.2	611	2	Q7TQ62	Q7tq62 mus musculus
585	168.5	5.4	907	1	LGR5_MOUSE	Q9z1p4 mus musculus	658	164	5.2	696	1	SLK1_HUMAN	Q96px8 homo sapien
586	168.5	5.4	1036	2	Q9FN37	Q9fn37 arabidopsis	659	164	5.2	696	1	SLK1_MOUSE	Q810c1 mus musculus
587	168.5	5.4	1360	2	Q9NDI1	Q9ndi1 drosophila	660	164	5.2	760	2	Q69Z70	Q69z70 mus musculus
588	168	5.4	351	2	Q65YW8	Q65yw8 xenopus lae	661	164	5.2	828	1	LGR6_HUMAN	Q9hbx8 homo sapien
589	168	5.4	402	2	Q7ZU35	Q7z35 leptospira	662	164	5.2	839	2	Q8MIQ2	Q8miq2 cryctolagus
590	168	5.4	753	2	Q9NRE6	Q9nre6 homo sapien	663	164	5.2	870	2	Q6PCD4	Q6pcd4 homo sapien
591	168	5.4	951	1	LGR4_HUMAN	Q9bxb1 homo sapien	664	164	5.2	888	2	Q7Q8I8	Q7q8i8 anopheles g
592	168	5.4	977	2	Q8GVW0	Q8gvw0 oryza sativ	665	164	5.2	904	1	TLR3_HUMAN	Q15455 homo sapien
593	167.5	5.3	147	2	Q9TT00	Q9tt00 sus scrofa	666	164	5.2	915	2	Q6UY15	Q6uy15 homo sapien
594	167.5	5.3	351	1	KERA_MOUSE	Q35367 mus musculus	667	164	5.2	923	2	Q86VU0	Q86vu0 homo sapien
595	167.5	5.3	360	1	PGS2_SHEEP	Q9tte2 ovis aries	668	164	5.2	928	2	Q9BYD7	Q9byd7 homo sapien
596	167.5	5.3	378	2	Q7ZU36	Q7z36 leptospira	669	164	5.2	1032	2	Q865B9	Q865b9 canis famil
597	167.5	5.3	396	2	Q8C3D9	Q8c3d9 mus musculus	670	164	5.2	1395	2	Q7SC01	Q7sc01 neurospora
598	167.5	5.3	422	1	OMD_BOVIN	Q77742 bos taurus	671	164	5.2	2045	1	AGRN_HUMAN	Q00468 homo sapien
599	167.5	5.3	917	2	Q75GM9	Q75gm9 oryza sativ	672	163.5	5.2	163	2	Q6E4E0	Q6e4e0 petromyzon
600	167.5	5.3	1174	2	Q7XS37	Q7xs37 oryza sativ	673	163.5	5.2	166	2	Q6E4I0	Q6e4i0 petromyzon
601	167	5.3	167	2	Q6P2A4	Q6p2a4 rattus norv	674	163.5	5.2	180	2	Q6E4H7	Q6e4h7 petromyzon
602	167	5.3	582	2	Q6AYI5	Q6ay15 rattus norv	675	163.5	5.2	370	2	Q9DE04	Q9de04 oreochromis
603	167	5.3	633	2	Q8F3F6	Q8f3f6 leptospira	676	163.5	5.2	786	2	Q48809	Q48809 arabidopsis
604	167	5.3	743	2	Q84CF7	Q84cf7 listeria mo	677	163	5.2	359	2	Q9DE03	Q9de03 oreochromis
605	167	5.3	744	2	Q8KTF4	Q8ktf4 listeria mo	678	163	5.2	501	2	Q6ZHB5	Q6zhb5 oryza sativ
606	167	5.3	794	2	Q6YW99	Q6yw99 oryza sativ	679	163	5.2	524	2	Q83378	Q83378 mus musculus
607	167	5.3	838	1	TLR4_CRIGR	Q9w82 cricetus	680	163	5.2	524	1	SHO2_MOUSE	Q88520 mus musculus
608	167	5.3	978	2	Q80YX3	Q80yx3 mus musculus	681	163	5.2	529	2	Q6F9N3	Q6f9n3 mus musculus
609	167	5.3	1112	2	Q41397	Q41397 lycopersico	682	163	5.2	933	2	Q9BJD5	Q9bjd5 strongyloce
610	167	5.3	1112	2	Q41398	Q41398 lycopersico	683	163	5.2	961	2	Q76CT7	Q76ct7 paralichthy
611	166.5	5.3	163	2	Q6E4D4	Q6e4d4 petromyzon	684	163	5.2	961	2	Q76CT9	Q76ct9 paralichthy
612	166.5	5.3	549	2	Q9SVW8	Q9svw8 arabidopsis	685	163	5.2	1221	2	Q9BIW9	Q9biw9 caenorhabdi
613	166.5	5.3	739	2	Q84CF6	Q84cf6 listeria mo	686	163	5.2	1612	1	LAP4_MOUSE	Q80u72 mus musculus
614	166.5	5.3	741	2	Q8KTF0	Q8ktf0 listeria mo	687	162.5	5.2	283	2	Q9V428	Q9v428 drosophila
615	166.5	5.3	741	2	Q8KTF9	Q8ktf9 listeria mo	688	162.5	5.2	452	2	Q8F118	Q8f118 leptospira

689	162.5	5.2	494	2	Q3VEK6	Q9vek6 drosophila	762	158	5.0	879	2	Q68CI3	Q68ci3 oncorhynchus
690	162.5	5.2	527	2	Q36PBS	Q86pbs drosophila	763	158	5.0	909	2	Q6ZRC2	Q6zrc2 homo sapien
691	162.5	5.2	641	2	Q8QM0	Q8mqm0 drosophila	764	158	5.0	5703	1	M05B_HUMAN	Q9nc84 homo sapien
692	162	5.2	242	2	Q3UG10	Q9ugl10 homo sapien	765	157.5	5.0	163	2	Q6E4I4	Q6e4i4 petromyzon
693	162	5.2	613	2	Q7Z5L7	Q7z5l7 homo sapien	766	157.5	5.0	224	2	Q9DE01	Q9de01 brachydanio
694	162	5.2	642	2	Q6UXL8	Q6uxl8 homo sapien	767	157.5	5.0	272	2	Q7KWF0	Q7kwf0 drosophila
695	162	5.2	649	2	Q8C2M4	Q8c2m4 mus musculus	768	157.5	5.0	1032	2	Q6UVZ2	Q6uvz2 homo sapien
696	162	5.2	661	2	Q6PIR3	Q6pir3 homo sapien	769	157	5.0	273	2	Q6NUU4	Q6nuu4 homo sapien
697	162	5.2	1040	2	Q6Z8Y3	Q6z8y3 oryza sativ	770	157	5.0	377	2	Q8F1I9	Q8f1i9 leptospira
698	161.5	5.2	507	2	Q3N3F2	Q3n3f2 caenorhabdi	771	157	5.0	444	2	Q9H5H8	Q9h5h8 homo sapien
699	161.5	5.2	841	1	TLR4_BOVIN	Q9gl65 bos taurus	772	157	5.0	592	2	Q7L236	Q7l236 homo sapien
700	161.5	5.2	841	2	Q8SQ55	Q8sq55 bos taurus	773	157	5.0	613	2	Q940B8	Q940b8 zea mays (m
701	161.5	5.2	841	2	Q6WCD4	Q6wcd4 bos taurus	774	157	5.0	622	2	Q940B8	Q940b8 homo sapien
702	161.5	5.2	841	2	Q6WCD5	Q6wcd5 bos taurus	775	157	5.0	680	1	LRC4_MOUSE	Q92196 mus musculus
703	161	5.1	552	2	Q7QFF0	Q7qff0 anopheles g	776	157	5.0	796	2	Q6NSJ5	Q6nsj5 homo sapien
704	161	5.1	558	2	Q8MPPE	Q8mpp6 caenorhabdi	777	157	5.0	903	2	Q6IWL5	Q6iwl5 brachydanio
705	161	5.1	559	2	Q22875	Q22875 caenorhabdi	778	157	5.0	1032	2	Q6YI50	Q6yis0 rattus norv
706	161	5.1	586	2	Q93377	Q93377 caenorhabdi	779	156.5	5.0	360	1	PGS2_RABIT	Q28888 oryctolagus
707	161	5.1	682	1	CONN_DROME	Q01819 drosophila	780	156.5	5.0	376	1	FMOD_HUMAN	Q06828 homo sapien
708	161	5.1	691	2	Q9AWR0	Q9awm0 drosophila	781	156.5	5.0	424	2	Q7Q087	Q7q087 anopheles g
709	161	5.1	861	2	Q9SLS3	Q9sls3 nicotiana t	782	156.5	5.0	428	2	Q9VDD4	Q9vdd4 drosophila
710	161	5.1	905	2	Q7TN18	Q7tni18 rattus norv	783	156.5	5.0	524	2	Q6AXP5	Q6axp5 rattus norv
711	161	5.1	945	2	Q801F9	Q801f9 carassius a	784	156.5	5.0	711	2	Q9SPM1	Q9spm1 lycopersico
712	160.5	5.1	452	2	Q7QKY2	Q7qky2 anopheles g	785	156.5	5.0	887	1	UFO_HUMAN	P30530 homo sapien
713	160.5	5.1	519	2	Q80ZD9	Q80zdz9 mus musculus	786	156.5	5.0	980	2	Q9ZUI0	Q9zuu0 arabidopsis
714	160.5	5.1	1446	2	Q3V8Z0	Q3v8z0 drosophila	787	156.5	5.0	1190	2	Q7PMD3	Q7pwd3 anopheles g
715	160.5	5.1	2810	2	Q55225	Q55225 mus musculus	788	156.5	5.0	1301	2	Q9VZ81	Q9vz81 drosophila
716	160.5	5.1	3989	2	Q6SS88	Q6sse8 chlamydomon	789	156.5	5.0	1600	2	Q9SM84	Q9sm84 oryza sativ
717	160	5.1	744	2	Q65375	Q65375 arabidopsis	790	156.5	5.0	1766	2	Q6XHA8	Q6xha8 dictyosteli
718	160	5.1	1050	2	Q9BN18	Q9bn18 drosophila	791	156	5.0	163	2	Q6E4D2	Q6e4d2 petromyzon
719	160	5.1	1080	2	Q9P4P6	Q9p4p6 oryza sativ	792	156	5.0	163	2	Q6E4F5	Q6e4f5 petromyzon
720	160	5.1	1096	2	Q8W556	Q8w556 arabidopsis	793	156	5.0	257	1	LRR3_HUMAN	Q0by71 homo sapien
721	160	5.1	1402	1	LAP2_MOUSE	Q80th2 mus musculus	794	156	5.0	354	1	PGS2_RAT	Q01129 rattus norv
722	160	5.1	1496	2	Q2E626	Q92626 homo sapien	795	156	5.0	469	2	Q9WI28	Q9wi28 drosophila
723	159.5	5.1	187	2	Q6E415	Q6e415 petromyzon	796	156	5.0	552	2	Q8K375	Q8k375 mus musculus
724	159.5	5.1	494	2	Q7LHF1	Q7lhf1 arabidopsis	797	156	5.0	594	2	Q9U3A0	Q9u3a0 caenorhabdi
725	159.5	5.1	520	2	Q7TNJ4	Q7tnj4 rattus norv	798	156	5.0	643	2	Q6Q148	Q6qi48 rattus norv
726	159.5	5.1	520	2	Q80ZD6	Q80zdz6 rattus norv	799	156	5.0	890	2	Q7Q941	Q7q941 anopheles g
727	159.5	5.1	636	2	Q8SQH3	Q8sqh3 canis famil	800	156	5.0	940	2	Q8T753	Q8t753 brachioosto
728	159.5	5.1	952	2	Q6Z7A9	Q6zta9 homo sapien	801	156	5.0	1039	2	Q86BL1	Q86bl1 drosophila
729	159.5	5.1	1112	2	Q64486	Q64486 arabidopsis	802	155.5	5.0	332	2	Q6C2U8	Q6c2u8 yarrowia li
730	159.5	5.1	1176	2	Q6ZWT6	Q6zwi6 homo sapien	803	155.5	5.0	338	2	Q6YEX8	Q6yex8 gallus gall
731	159	5.1	257	1	LRR3_RAT	P93035 rattus norv	804	155.5	5.0	367	2	Q8BK43	Q8bk43 mus musculus
732	159	5.1	524	1	LRR1_HUMAN	Q9ctt6 homo sapien	805	155.5	5.0	903	2	Q14560	Q14560 homo sapien
733	159	5.1	543	2	Q8S7M7	Q8s7m7 oryza sativ	806	155.5	5.0	980	2	Q80WAO	Q80wa0 mus musculus
734	159	5.1	550	1	LGI2_MOUSE	Q8k4z0 mus musculus	807	155.5	5.0	1102	2	Q8KC98	Q8kc98 chlorobium
735	159	5.1	626	2	Q9NDD1	Q9ndd1 leishmania	808	155.5	5.0	1135	2	Q84RP6	Q84rp6 arabidopsis
736	159	5.1	695	2	Q93539	Q93539 caenorhabdi	809	155.5	5.0	1334	2	Q9RKR9	Q9rkr9 streptomyce
737	159	5.1	964	2	Q86U22	Q86u22 homo sapien	810	155	4.9	347	2	Q9DE00	Q9de00 petromyzon
738	159	5.1	984	1	RIN3_HUMAN	Q86u22 homo sapien	811	155	4.9	504	2	Q86WK7	Q86wk7 homo sapien
739	159	5.1	985	2	Q76LB3	Q76lb3 homo sapien	812	155	4.9	523	2	Q96JH6	Q96jh6 homo sapien
740	159	5.1	1119	2	Q8Z0H2	Q8z0h2 anabaena sp	813	155	4.9	576	2	Q6Z8P4	Q6z8p4 oryza sativ
741	158.5	5.1	163	2	Q6E4E4	Q6e4e4 petromyzon	814	155	4.9	719	2	Q8VJQ6	Q8vjq6 mycobacteri
742	158.5	5.1	166	2	Q6E4E6	Q6e4e6 petromyzon	815	155	4.9	825	2	Q62JU8	Q62ju8 brachydanio
743	158.5	5.1	417	2	Q15828	Q15828 leishmania	816	155	4.9	961	1	P90920	P90920 caenorhabdi
744	158.5	5.1	656	2	Q19312	Q19312 caenorhabdi	817	155	4.9	1041	2	TLR8_HUMAN	Q9nr97 homo sapien
745	158.5	5.1	738	2	Q93373	Q93373 caenorhabdi	818	155	4.9	1041	2	Q6UXL6	Q6uxl6 homo sapien
746	158.5	5.1	845	2	Q7Q090	Q7q090 anopheles g	819	155	4.9	1344	2	Q9SM94	Q9sm94 oryza sativ
747	158.5	5.1	953	2	Q9V701	Q9v701 drosophila	820	154.5	4.9	219	2	Q90WZ2	Q90wz2 gallus gall
748	158.5	5.1	1007	2	Q8MQJ9	Q8mqj9 aedes aegyp	821	154.5	4.9	376	2	Q8IV47	Q8iv47 homo sapien
749	158.5	5.1	1061	2	Q855V6	P8682 mus musculus	822	154.5	4.9	524	1	LRR1_MOUSE	Q80vq1 mus musculus
750	158.5	5.1	1123	2	Q65XS7	Q65sv6 oryza sativ	823	154.5	4.9	548	2	Q9VJUI	Q9vjui drosophila
751	158.5	5.1	1124	2	Q7LGG9	Q65xs7 oryza sativ	824	154.5	4.9	550	2	Q9AXI8	Q9axi8 oryza sativ
752	158.5	5.1	1124	2	Q7LGG9	Q7l6g9 homo sapien	825	154.5	4.9	631	2	Q8TNI4	Q8tni4 methanosarc
753	158.5	5.1	1181	2	Q7Z235	Q7zz35 brachydanio	826	154.5	4.9	1013	2	Q9M0G7	Q9m0g7 arabidopsis
754	158.5	5.1	1202	2	Q8WXE0	Q8wxe0 homo sapien	827	154.5	4.9	1109	2	Q6YT77	Q6yt77 oryza sativ
755	158.5	5.1	1300	2	Q9NKD6	Q9nkde drosophila	828	154.5	4.9	1143	2	Q9SUB9	Q9sub9 arabidopsis
756	158	5.0	317	2	Q6EB32	Q9eb32 homo sapien	829	154.5	4.9	1192	1	EXS_ARATH	Q9lyn8 arabidopsis
757	158	5.0	352	1	KERA_HUMAN	Q60938 homo sapien	830	154.5	4.9	1961	2	Q6MG89	Q6mg89 rattus norv
758	158	5.0	377	2	Q72U33	Q7zu33 leptospira	831	154.5	4.9	2517	1	NCR2_HUMAN	Q9y618 h nuclear r
759	158	5.0	510	2	Q9NIR8	Q9nir8 dictyosteli	832	154	4.9	399	2	Q8STX6	Q8stx6 encephalito
760	158	5.0	554	2	Q7QHO2	Q7qhq2 anopheles g	833	154	4.9	458	2	Q9VUI3	Q9vui3 drosophila
761	158	5.0	741	2	Q9VJA9	Q9vja9 drosophila	834	154	4.9	491	2	Q6KAP0	Q6kap0 mus musculus

835	154	4.9	530	2	P97830	P97830 rattus norv	908	151	4.8	1385	2	Q9V8Z5	Q9V8Z5 drosophila
836	154	4.9	584	2	Q49751	Q49751 aradidopsis	909	151	4.8	1389	2	Q24591	Q24591 drosophila
837	154	4.9	584	2	Q8L7Z2	Q8L7Z2 aradidopsis	910	150.5	4.8	289	2	Q8F3F4	Q8F3F4 leptospira
838	154	4.9	812	2	Q9VFY9	Q9VFY9 drosophila	911	150.5	4.8	329	2	Q8F115	Q8F115 leptospira
839	154	4.9	825	2	Q63U08	Q63U08 burkholderi	912	150.5	4.8	408	2	Q8F212	Q8F212 leptospira
840	154	4.9	953	2	Q8VYG7	Q8VYG7 aradidopsis	913	150.5	4.8	413	2	Q7ZTC4	Q7ZTC4 leptospira
841	154	4.9	1845	2	Q80UA8	Q80UA8 mus musculus	914	150.5	4.8	423	1	OMD_RAT	Q9Z187 rattus norv
842	153.5	4.9	163	2	Q6E4L8	Q6E4L8 petromyzon	915	150.5	4.8	537	2	Q9C769	Q9C769 aradidopsis
843	153.5	4.9	166	2	Q6E4G5	Q6E4G5 petromyzon	916	150.5	4.8	648	2	Q8BU93	Q8BU93 m mus muscu
844	153.5	4.9	403	2	Q96CK6	Q96CK6 homo sapien	917	150.5	4.8	685	2	Q6AXL3	Q6AXL3 brachydanio
845	153.5	4.9	655	2	Q9PBR7	Q9PBR7 streptomyce	918	150.5	4.8	695	1	FSHR_HUMAN	P23945 homo sapien
846	153.5	4.9	685	2	Q72TH0	Q72TH0 leptospira	919	150.5	4.8	818	2	Q76CU0	Q76CU0 paralicthy
847	153.5	4.9	685	2	Q8F1V0	Q8F1V0 leptospira	920	150.5	4.8	1107	2	Q8BKP3	Q8BKP3 m mus muscu
848	153.5	4.9	802	2	Q8L4U4	Q8L4U4 oryza sativ	921	150.5	4.8	1109	1	RPK1_IPONI	P93194 ipomoea nil
849	153.5	4.9	864	2	Q8LRF4	Q8LRF4 aradidopsis	922	150.5	4.8	1140	2	Q9LR04	Q9LR04 aradidopsis
850	153.5	4.9	864	2	Q9T033	Q9T033 aradidopsis	923	150.5	4.8	1149	2	Q6GQR9	Q6GQR9 mus musculus
851	153.5	4.9	894	2	Q8N5L2	Q8N5L2 homo sapien	924	150.5	4.8	1461	2	Q94H87	Q94H87 oryza sativ
852	153.5	4.9	1032	1	TLR9_HUMAN	Q9N96 homo sapien	925	150.5	4.8	1575	2	Q7PS39	Q7PS39 anopheles g
853	153.5	4.9	1041	2	Q9F1I5	Q9F1I5 aradidopsis	926	150.5	4.8	1898	2	Q6ZP14	Q6ZP14 mus musculus
854	153.5	4.9	1110	2	Q9F1I7	Q9F1I7 aradidopsis	927	150	4.8	163	2	Q6E4E8	Q6E4E8 petromyzon
855	153.5	4.9	1121	2	Q942F3	Q942F3 oryza sativ	928	150	4.8	259	1	LR3B_HUMAN	Q96b8 homo sapien
856	153.5	4.9	3247	2	Q655F3	Q655F3 bovine herp	929	150	4.8	259	1	LR3B_MOUSE	Q8Vcb8 homo sapien
857	153.5	4.9	3247	2	Q77CD4	Q77CD4 bovine herp	930	150	4.8	272	1	PGS1_PIG	Q9GK6 sus scrofa
858	153	4.9	367	2	Q6GLE8	Q6GLE8 xenopus tro	931	150	4.8	305	2	Q9N028	Q9N028 macaca fasc
859	153	4.9	581	2	Q9D5Q5	Q9D5Q5 m mus muscu	932	150	4.8	348	2	Q756S8	Q756S8 ashbya goss
860	153	4.9	590	2	Q9D2F4	Q9D2F4 m mus muscu	933	150	4.8	367	2	Q86X40	Q86X40 homo sapien
861	153	4.9	687	2	Q7Q549	Q7Q549 anopheles g	934	150	4.8	584	2	Q49750	Q49750 aradidopsis
862	153	4.9	699	1	VGLG_HHV2H	P13290 human herp	935	150	4.8	652	2	Q8GUM9	Q8GUM9 aradidopsis
863	153	4.9	720	2	Q6POA5	Q6POA5 sparus aura	936	150	4.8	796	2	Q76L23	Q76L23 sus scrofa
864	153	4.9	1840	2	Q9ULI4	Q9ULI4 homo sapien	937	150	4.8	802	2	Q8LFN2	Q8LFN2 aradidopsis
865	153	4.9	2042	2	Q767L8	Q767L8 sus scrofa	938	150	4.8	803	2	Q9SRV4	Q9SRV4 aradidopsis
866	152.5	4.9	163	2	Q6E4F3	Q6E4F3 petromyzon	939	150	4.8	1064	2	Q6P7W6	Q6P7W6 mus musculus
867	152.5	4.9	494	2	Q9AXA4	Q9AXA4 oryza sativ	940	150	4.8	1294	2	Q8RZV7	Q8RZV7 oryza sativ
868	152.5	4.9	558	2	Q7PT66	Q7PT66 anopheles g	941	150	4.8	1305	2	Q80VF9	Q80VF9 mus musculus
869	152.5	4.9	577	2	Q8AVI4	Q8AVI4 xenopus lae	942	150	4.8	1315	1	CHAO_DROME	P12024 drosophila
870	152.5	4.9	581	2	Q9ANV0	Q9ANV0 brachyrihob	943	149.5	4.8	98	2	Q6XG3	Q6XG3 gallus gall
871	152.5	4.9	585	2	Q89TL5	Q89TL5 brachyrihob	944	149.5	4.8	163	2	Q6E4E9	Q6E4E9 petromyzon
872	152.5	4.9	849	1	LAPI_DROME	Q9V780 drosophila	945	149.5	4.8	164	2	Q6E4G8	Q6E4G8 petromyzon
873	152.5	4.9	1109	2	Q8HAJ0	Q8HAJ0 oryza sativ	946	149.5	4.8	167	2	Q6E4I1	Q6E4I1 petromyzon
874	152.5	4.9	1295	2	Q8TOX1	Q8TOX1 bombyx mori	947	149.5	4.8	224	2	Q44086	Q44086 caenorhabdi
875	152.5	4.9	1356	2	Q8WRE2	Q8WRE2 anopheles g	948	149.5	4.8	542	2	Q6V4C6	Q6V4C6 drosophila
876	152.5	4.9	3288	2	Q7T5D9	Q7T5D9 cercopithe	949	149.5	4.8	657	2	Q6L569	Q6L569 oryza sativ
877	152	4.8	364	2	Q8BS51	Q8BS51 mus musculus	950	149.5	4.8	696	2	Q9DGF5	Q9DGF5 cynops pyrr
878	152	4.8	443	1	LR17_MOUSE	Q9CXD9 mus musculus	951	149.5	4.8	894	2	Q8GYR8	Q8GYR8 aradidopsis
879	152	4.8	562	2	Q9M7W9	Q9M7W9 aradidopsis	952	149.5	4.8	957	2	Q9SRL2	Q9SRL2 aradidopsis
880	152	4.8	776	2	Q6R2K3	Q6R2K3 aradidopsis	953	149.5	4.8	1056	2	Q8S7A6	Q8S7A6 oryza sativ
881	152	4.8	786	1	TLR1_HUMAN	Q15399 homo sapien	954	149.5	4.8	1056	2	Q7XFM6	Q7XFM6 oryza sativ
882	152	4.8	786	2	Q6FI64	Q6FI64 homo sapien	955	149	4.8	167	2	Q6S4D3	Q6S4D3 petromyzon
883	152	4.8	796	1	TLR6_HUMAN	Q9Y2C9 homo sapien	956	149	4.8	295	2	Q86DD0	Q86DD0 caenorhabdi
884	151.5	4.8	347	2	Q9D9Q0	Q9D9Q0 mus musculus	957	149	4.8	310	2	Q86S81	Q86S81 caenorhabdi
885	151.5	4.8	695	1	FSHR_MACFA	P32212 macaca fasc	958	149	4.8	341	2	Q9N5D7	Q9N5D7 caenorhabdi
886	151.5	4.8	855	2	Q8L3V5	Q8L3V5 glycine max	959	149	4.8	375	2	Q9N4Z5	Q9N4Z5 caenorhabdi
887	151.5	4.8	997	2	Q6K7X5	Q6K7X5 oryza sativ	960	149	4.8	450	2	Q7Q6S9	Q7Q6S9 anopheles g
888	151.5	4.8	1109	2	Q84ZJ8	Q84ZJ8 oryza sativ	961	149	4.8	471	2	Q9LRV8	Q9LRV8 aradidopsis
889	151.5	4.8	1152	2	Q8WRE5	Q8WRE5 anopheles g	962	149	4.8	784	1	TLR2_CRIGR	Q9R18 cricetus
890	151.5	4.8	1152	2	Q7PFC4	Q7PFC4 anopheles g	963	149	4.8	927	2	Q8N537	Q8N537 homo sapien
891	151	4.8	163	2	Q6E4H9	Q6E4H9 petromyzon	964	149	4.8	1025	2	Q40640	Q40640 oryza sativ
892	151	4.8	289	2	Q8PMK9	Q8PMK9 anopheles g	965	149	4.8	1025	2	Q7DMC2	Q7DMC2 oryza longi
893	151	4.8	399	2	Q8BM45	Q8BM45 m mus muscu	966	149	4.8	1143	2	Q9ZPS9	Q9ZPS9 aradidopsis
894	151	4.8	530	2	Q08934	Q08934 mus musculus	967	149	4.8	1504	2	Q6PGP3	Q6PGP3 homo sapien
895	151	4.8	540	2	Q6V6S6	Q6V6S6 drosophila	968	149	4.8	1504	2	Q6PIB4	Q6PIB4 homo sapien
896	151	4.8	540	2	P93666	P93666 helianthus	969	149	4.8	1504	2	Q7Z2X6	Q7Z2X6 homo sapien
897	151	4.8	541	2	Q6V6S8	Q6V6S8 drosophila	970	149	4.8	1504	2	Q9UES6	Q9UES6 homo sapien
898	151	4.8	541	2	Q6V6S9	Q6V6S9 drosophila	971	149	4.8	1522	2	Q15069	Q15069 homo sapien
899	151	4.8	541	2	Q6V6T0	Q6V6T0 drosophila	972	149	4.8	1528	2	Q9I2I1	Q9I2I1 homo sapien
900	151	4.8	570	2	Q7PTF7	Q7PTF7 anopheles g	973	149	4.8	1874	2	Q75F93	Q75F93 ashbya goss
901	151	4.8	581	2	Q04143	Q04143 silene lati	974	149	4.8	2357	2	Q869S1	Q869S1 dictyosteli
902	151	4.8	784	2	Q6YGU2	Q6YGU2 rattus norv	975	149	4.8	2357	2	Q9U1M8	Q9U1M8 dictyosteli
903	151	4.8	793	2	Q704V6	Q704V6 bos taurus	976	148.5	4.7	163	2	Q6E4F7	Q6E4F7 petromyzon
904	151	4.8	793	2	Q706D2	Q706D2 bos taurus	977	148.5	4.7	215	2	Q91VH8	Q91VH8 mus musculus
905	151	4.8	835	1	TLR4_MOUSE	Q9QK6 mus musculus	978	148.5	4.7	321	2	Q6X8P9	Q6X8P9 bos taurus
906	151	4.8	947	2	QRUT5	QRUT5 oryza sativ	979	148.5	4.7	375	1	FMOD_BOVIN	P13605 bos taurus
907	151	4.8	1030	2	Q8H037	Q8H037 oryza sativ	980	148.5	4.7	376	1	FMOD_RAT	P50609 rattus norv

981	148.5	4.7	610	2	Q21604	Q21604 caenorhabdi	1054	146	4.7	661	2	Q8C251	Q8C251 mus musculus
982	148.5	4.7	646	2	Q8PQD3	Q8pgd3 xanthomonas	1055	146	4.7	673	2	Q6K014	Q6k014 bothrops ja
983	148.5	4.7	680	2	Q33374	Q33374 caenorhabdi	1056	146	4.7	785	2	Q9LVN2	Q9lvn2 arabidopsis
984	148.5	4.7	807	2	Q6GPJ8	Q6gpj8 xenopus lae	1057	146	4.7	788	2	Q18510	Q18510 trichoplusi
985	148.5	4.7	890	2	Q2QLQ11	Q2qlq11 arabidopsis	1058	146	4.7	827	2	Q6R0H4	Q6r0h4 mus musculus
986	148.5	4.7	964	2	Q7QHHY9	Q7qhy9 anopheles g	1059	146	4.7	876	2	Q6R0H5	Q6r0h5 mus musculus
987	148.5	4.7	964	2	Q8VYT7	Q8vyt7 arabidopsis	1060	146	4.7	1133	2	Q6R0H7	Q6r0h7 mus musculus
988	148.5	4.7	964	2	Q9LYO3	Q9lyo3 arabidopsis	1061	146	4.7	1135	2	Q8W0A8	Q8w0a8 oryza sativ
989	148.5	4.7	1013	2	Q86PY9	Q86py9 homo sapien	1062	146	4.7	1173	2	Q8FL28	Q8fl28 arabidopsis
990	148.5	4.7	1016	2	Q9LR11	Q9lrl1 arabidopsis	1063	146	4.7	1413	2	Q7F8Q9	Q7f8q9 oryza sativ
991	148.5	4.7	1099	2	Q8WXE4	Q8wxex4 homo sapien	1064	145.5	4.6	167	2	Q6E4F4	Q6e4f4 petromyzon
992	148.5	4.7	1115	1	Q6FCR LYMST	Q6fcr23 lymnaea sta	1065	145.5	4.6	352	2	Q7XNY1	Q7xny1 oryza sativ
993	148.5	4.7	1140	2	Q7S718	Q7s718 neurospora	1066	145.5	4.6	380	1	FMOD CHICK	FM01887 gallus gall
994	148	4.7	311	2	Q8FL16	Q8fl16 leptospira	1067	145.5	4.6	687	1	FSHR_EQUAS	Q95179 equus asinu
995	148	4.7	338	1	LUM RAT	PS1886 rattus norv	1068	145.5	4.6	807	2	Q18511	Q18511 trichoplusi
996	148	4.7	572	2	Q7ZS79	Q7zst79 leptospira	1069	145.5	4.6	827	2	Q6ZG00	Q6zsg00 oryza sativ
997	148	4.7	724	2	Q6S1V0	Q6s1v0 oryza sativ	1070	145.5	4.6	886	1	VGP3_EBVA8	P68344 epstein-bar
998	148	4.7	745	2	Q89XO6	Q89xo6 bradyrhizob	1071	145.5	4.6	886	1	VGP3_EBVP3	P68344 epstein-bar
999	148	4.7	1095	2	Q6URA2	Q6ura2 malus bacca	1072	145.5	4.6	1453	2	Q9Y6T1	Q9y6t1 homo sapien
1000	148	4.7	1188	2	Q41805	Q41805 zea mays (m	1073	145.5	4.6	2142	1	BAT2_HUMAN	P48634 homo sapien
1001	148	4.7	1964	1	NTC4_MOUSE	P31695 mus musculus	1074	145	4.6	338	1	LUM_HUMAN	PS1884 homo sapien
1002	148	4.7	2143	2	Q75T35	Q75t35 glomerella	1075	145	4.6	672	2	Q6ERW2	Q6erw2 oryza sativ
1003	147.5	4.7	163	2	Q6E4M8	Q6e4m8 petromyzon	1076	145	4.6	694	1	FSHR HORSE	Q6w799 equus caball
1004	147.5	4.7	316	1	PLGB_CHICK	Q90944 gallus gall	1077	145	4.6	700	2	Q9XDN9	Q9xnd9 salmonella
1005	147.5	4.7	370	1	LR19_HUMAN	Q9h756 homo sapien	1078	145	4.6	742	2	Q81ZX5	Q81zx5 streptomyce
1006	147.5	4.7	376	1	FMOD_MOUSE	PS0608 mus musculus	1079	145	4.6	747	2	Q22187	Q22187 caenorhabdi
1007	147.5	4.7	376	2	Q8BNU3	Q8bnu3 mus musculus	1080	145	4.6	941	2	Q8P941	Q8p941 xanthomonas
1008	147.5	4.7	404	2	Q7TPZ1	Q7tpz1 mus musculus	1081	145	4.6	1032	1	TLR9_MOUSE	Q9eq3 mus musculus
1009	147.5	4.7	499	2	Q8VYG9	Q8vyg9 arabidopsis	1082	145	4.6	1395	2	Q88KC1	Q88kc1 pseudomonas
1010	147.5	4.7	541	2	Q6V6S5	Q6v6s5 drosophila	1083	145	4.6	1839	1	CYAA_SACKL	P23466 saccharomyc
1011	147.5	4.7	646	2	Q83XD4	Q83xd4 xanthomonas	1084	144.5	4.6	163	2	Q6E4G3	Q6e4g3 petromyzon
1012	147.5	4.7	964	2	Q8L3T4	Q8l3t4 oryza sativ	1085	144.5	4.6	260	2	Q8STV7	Q8stv7 encephalito
1013	147.5	4.7	1052	2	Q8K2G4	Q8k2g4 oryza sativ	1086	144.5	4.6	301	2	Q72PU2	Q72pu2 leptospira
1014	147.5	4.7	1099	2	Q8N1F8	Q8n1f8 homo sapien	1087	144.5	4.6	312	2	Q6UTY49	Q6uy49 homo sapien
1015	147.5	4.7	1194	2	Q6PCFM6	Q6pcfm6 mus musculus	1088	144.5	4.6	333	2	Q8MTS4	Q8mts4 sus scrofa
1016	147.5	4.7	1385	2	Q7JPR9	Q7jpr9 drosophila	1089	144.5	4.6	338	1	LUM_MOUSE	PS1885 mus musculus
1017	147.5	4.7	2157	2	Q95875	Q95875 homo sapien	1090	144.5	4.6	392	2	Q9VR83	Q9vvr83 drosophila
1018	147.5	4.7	2157	2	Q96QC5	Q96qc5 homo sapien	1091	144.5	4.6	434	2	Q7XK44	Q7xk44 oryza sativ
1019	147.5	4.7	2157	2	Q8P9P7	Q8p9p7 homo sapien	1092	144.5	4.6	447	2	Q8EA32	Q8ea32 shewanella
1020	147	4.7	272	2	Q7ZND5	Q7znd5 leptospira	1093	144.5	4.6	486	2	Q9LQ21	Q9lq21 arabidopsis
1021	147	4.7	388	2	Q9DDZ9	Q9ddz9 petromyzon	1094	144.5	4.6	692	2	Q8GYC3	Q8gyc3 homo sapien
1022	147	4.7	499	2	Q8F3F9	Q8f3f9 leptospira	1095	144.5	4.6	886	2	Q9QP87	Q9qp87 human herpe
1023	147	4.7	526	2	Q84GT9	Q84gt9 yersinia en	1096	144.5	4.6	980	1	RIN3_MOUSE	P59729 mus musculus
1024	147	4.7	643	2	Q7Q8J4	Q7q8j4 anopheles g	1097	144.5	4.6	1089	2	Q7X2F4	Q7x2f4 streptomyce
1025	147	4.7	835	2	Q8K2T5	Q8k2t5 mus musculus	1098	144.5	4.6	1451	2	Q7LGI1	Q7lgi1 homo sapien
1026	147	4.7	960	2	Q6K7T8	Q6k7t8 oryza sativ	1099	144.5	4.6	1608	2	Q96RK0	Q96rk0 homo sapien
1027	147	4.7	1005	2	Q7PSW2	Q7psw2 anopheles g	1100	144.5	4.6	1855	2	Q80ZF0	Q80zf0 rattus norv
1028	147	4.7	1063	2	Q7Q548	Q7q548 anopheles g	1101	144.5	4.6	2187	1	P70670	P70670 mus musculus
1029	147	4.7	1118	2	Q76CZ4	Q76cz4 hordeum vul	1102	144.5	4.6	3149	1	TEGU_EBV	P03186 epstein-bar
1030	147	4.7	1118	2	Q76CZ5	Q76cz5 hordeum spo	1103	144.5	4.6	3149	2	Q777G4	Q777g4 human herpe
1031	147	4.7	1118	2	Q76CZ6	Q76cz6 hordeum vul	1104	144.5	4.6	3179	2	Q8V2M4	Q8v2m4 human herpe
1032	147	4.7	2414	1	P300_HUMAN	Q09472 homo sapien	1105	144	4.6	232	2	Q66WJ8	Q66wj8 felis silve
1033	147	4.7	2805	1	MAPA_HUMAN	Q78559 homo sapien	1106	144	4.6	581	2	Q74G77	Q74g77 geobacter s
1034	146.5	4.7	325	2	Q8NAB7	Q8nab7 homo sapien	1107	144	4.6	661	1	C180_HUMAN	Q99467 homo sapien
1035	146.5	4.7	382	2	Q9SZH9	Q9szh9 arabidopsis	1108	144	4.6	675	2	Q8BMT4	Q8bmt4 m mus muscu
1036	146.5	4.7	383	2	Q8RWE5	Q8rwe5 arabidopsis	1109	144	4.6	695	1	FSHR_BOVIN	P35376 bos taurus
1037	146.5	4.7	409	2	Q8P3D8	Q8p3d8 mus musculus	1110	144	4.6	851	2	Q9QP56	Q9qp56 human herpe
1038	146.5	4.7	438	2	Q7WA81	Q7wa81 bordetella	1111	144	4.6	853	2	Q14333	Q14333 homo sapien
1039	146.5	4.7	508	2	Q80ZD5	Q80zd5 rattus norv	1112	144	4.6	967	2	Q6K3W2	Q6k3w2 oryza sativ
1040	146.5	4.7	521	2	Q6ZPW2	Q6zpw2 mus musculus	1113	144	4.6	1019	2	Q9C699	Q9c699 arabidopsis
1041	146.5	4.7	524	2	Q6DJK2	Q6dj2k xenopus lae	1114	144	4.6	1072	2	Q69X93	Q69x93 oryza sativ
1042	146.5	4.7	675	2	Q80WJ1	Q80wj1 mus musculus	1115	144	4.6	1077	2	Q9NJG7	Q9njg7 drosophila
1043	146.5	4.7	717	2	Q7FLK6	Q7flk6 oryza sativ	1116	144	4.6	1266	2	Q7MTS7	Q7mts7 porphyronon
1044	146.5	4.7	861	2	Q69JZ8	Q69jz8 oryza sativ	1117	144	4.6	3326	2	Q7T591	Q7t591 cercopithec
1045	146.5	4.7	906	2	Q6QNU9	Q6qnu9 mus musculus	1118	143.5	4.6	162	2	Q6E4H1	Q6e4h1 petromyzon
1046	146.5	4.7	925	2	Q9SIX4	Q9six4 arabidopsis	1119	143.5	4.6	243	2	Q25335	Q25335 leishmania
1047	146.5	4.7	950	2	Q8QMN5	Q8qmn5 drosophila	1120	143.5	4.6	425	2	Q9XTT6	Q9xtt6 caenorhabdi
1048	146.5	4.7	1016	2	Q8PMQ5	Q8pmq5 zea mays (m	1121	143.5	4.6	432	2	Q8RL77	Q8rl77 xanthomonas
1049	146.5	4.7	1407	2	Q9VB65	Q9vb65 drosophila	1122	143.5	4.6	447	2	Q7WJB6	Q7wjb6 bordetella
1050	146.5	4.7	1408	1	SERR_DROME	P18168 drosophila	1123	143.5	4.6	496	1	TNM_ARATH	Q9esdl arabidopsis
1051	146.5	4.7	1439	2	Q88NY1	Q88ny1 pseudomonas	1124	143.5	4.6	524	2	Q6PLV2	Q6plv2 xenopus tro
1052	146.5	4.7	1860	2	Q8IZC6	Q8izc6 homo sapien	1125	143.5	4.6	605	2	Q9LFT7	Q9lft7 arabidopsis
1053	146	4.7	369	2	Q91332	Q91332 pseudomonas	1126	143.5	4.6	613	2	Q8RWK7	Q8rkw7 arabidopsis

1127	143.5	4.6	632	2	Q7QJA7	Q7qja7 anopheles g	1200	141	4.5	298	2	Q7Q757	Q7q757 anopheles g
1128	143.5	4.6	661	2	Q7YRL4	Q7yrl4 sus scrofa	1201	141	4.5	424	2	Q73L62	Q73l62 treponema d
1129	143.5	4.6	673	2	Q7T5C3	Q7t5c3 ceratophyc	1202	141	4.5	532	2	Q61133	Q61133 dictyosteli
1130	143.5	4.6	850	2	Q6K322	Q6k322 oryza sativ	1203	141	4.5	583	2	Q8N1G4	Q8n1g4 homo sapien
1131	143.5	4.6	1015	2	Q6FKU3	Q6fku3 arabidopsis	1204	141	4.5	586	2	Q21164	Q21164 caenorhabdi
1132	143.5	4.6	1067	2	Q6NVE5	Q6nve5 mus musculu	1205	141	4.5	630	1	INLB_LISMO	INLB_LISMO listeria mo
1133	143.5	4.6	1158	2	Q6GN32	Q6gn32 xenopus lae	1206	141	4.5	679	1	LAP1_CABEL	LAP1_CABEL caenorhabdi
1134	143.5	4.6	1208	2	Q80YA8	Q80ya8 mus musculu	1207	141	4.5	699	2	Q6A580	Q6a580 caenorhabdi
1135	143.5	4.6	1214	2	Q6ZCZ2	Q6zcz2 oryza sativ	1208	141	4.5	798	2	Q76CT8	Q76ct8 paralichthy
1136	143.5	4.6	1320	2	Q8NGZ5	Q8ngz5 homo sapien	1209	141	4.5	926	2	Q6R5P0	Q6r5p0 mus musculu
1137	143.5	4.6	1421	2	Q9P257	Q9p257 homo sapien	1210	141	4.5	1023	2	Q84NG8	Q84ng8 hordeum vul
1138	143.5	4.6	1508	2	Q8UVH3	Q8uvh3 coturnix co	1211	140.5	4.5	245	2	Q7PNO0	Q7pno0 anopheles g
1139	143.5	4.6	1636	2	Q9H3S7	Q9h3s7 homo sapien	1212	140.5	4.5	266	2	Q7A580	Q7a580 leptospira
1140	143.5	4.6	1682	2	Q15054	Q15054 homo sapien	1213	140.5	4.5	356	2	Q9Q0B5	Q9q0b5 human herpe
1141	143.5	4.6	2052	2	Q6CE40	Q6ce40 yarrowia li	1214	140.5	4.5	446	2	Q6AYD0	Q6ayd0 rattus norv
1142	143	4.6	156	2	Q6E4M4	Q6e4m4 petromyzon	1215	140.5	4.5	568	2	Q724E2	Q724e2 listeria m
1143	143	4.6	400	2	Q7W1F7	Q7w1f7 bordetella	1216	140.5	4.5	750	2	Q9AUC2	Q9auc2 zea mays (m
1144	143	4.6	508	2	Q8C2S7	Q8c2s7 mus musculu	1217	140.5	4.5	757	1	LGR7_HUMAN	LGR7_HUMAN homo sapien
1145	143	4.6	523	2	Q75K58	Q75k58 oryza sativ	1218	140.5	4.5	782	1	CHAO_TRICA	CHAO_TRICA tribolium c
1146	143	4.6	566	2	Q7T0Y0	Q7t0y0 xenopus lae	1219	140.5	4.5	953	2	Q8GZ99	Q8gz99 arabidopsis
1147	143	4.6	705	2	Q6ZPH1	Q6zph1 mus musculu	1220	140.5	4.5	1021	1	PSXR_DAUCA	PSXR_DAUCA daucus caro
1148	143	4.6	788	1	PCAP_HUMAN	Q6zph1 mus sapien	1221	140	4.5	276	1	RSUL_HUMAN	RSUL_HUMAN homo sapien
1149	143	4.6	935	2	Q9PB17	Q9pb17 streptomyce	1222	140	4.5	330	2	Q8K2A9	Q8k2a9 mus musculu
1150	143	4.6	980	2	Q84EX0	Q84ex0 streptomyce	1223	140	4.5	449	2	Q6S8V8	Q6s8v8 homo sapien
1151	143	4.6	1026	2	Q6V495	Q6v495 drosophila	1224	140	4.5	474	2	Q59142	Q59142 aeromonas s
1152	143	4.6	1040	2	Q8S5G8	Q8s5g8 oryza sativ	1225	140	4.5	522	2	Q6NLJ7	Q6nlj7 drosophila
1153	143	4.6	1065	2	Q9LGI5	Q9lgi5 oryza sativ	1226	140	4.5	633	2	Q8BY16	Q8by16 mus musculu
1154	143	4.6	1434	2	Q7SE00	Q7se00 neurospora	1227	140	4.5	647	2	Q86NW5	Q86nw5 drosophila
1155	142.5	4.5	277	2	Q6GND8	Q6gnd8 xenopus lae	1228	140	4.5	650	2	Q7KSK8	Q7ksk8 drosophila
1156	142.5	4.5	376	2	Q7PYM1	Q7pym1 anopheles g	1229	140	4.5	693	2	Q9V3X1	Q9v3x1 drosophila
1157	142.5	4.5	459	2	Q7Q0F7	Q7q0f7 anopheles g	1230	140	4.5	720	2	Q9SPE9	Q9spe9 arabidopsis
1158	142.5	4.5	477	2	Q7Q5V6	Q7q5v6 anopheles g	1231	140	4.5	725	2	Q8T124	Q8t124 dictyosteli
1159	142.5	4.5	856	2	Q56854	Q56854 human herpe	1232	140	4.5	754	2	Q9ZQ22	Q9zq22 arabidopsis
1160	142.5	4.5	1031	2	Q8BNC8	Q8bnc8 mus musculu	1233	140	4.5	760	2	Q81G77	Q81g77 bacillus ce
1161	142.5	4.5	1052	2	Q6ZQ03	Q6zq03 mus musculu	1234	140	4.5	835	2	Q6K317	Q6k317 oryza sativ
1162	142.5	4.5	1077	2	Q9JHC1	Q9jhc1 mus musculu	1235	140	4.5	879	2	Q7PS89	Q7ps89 anopheles g
1163	142.5	4.5	1666	1	LTBA_MOUSE	Q8k4g1 mus musculu	1236	140	4.5	999	2	Q82432	Q82432 malus domes
1164	142	4.5	243	2	Q8CEB3	Q8ceb3 mus musculu	1237	140	4.5	1029	2	Q9FRS6	Q9frs6 arabidopsis
1165	142	4.5	402	2	Q8N641	Q8n641 homo sapien	1238	140	4.5	1065	2	Q7EYF8	Q7eyf8 oryza sativ
1166	142	4.5	470	2	Q9LU11	Q9lu11 arabidopsis	1239	140	4.5	1172	2	Q9FWM3	Q9fwm3 oryza sativ
1167	142	4.5	567	2	Q33932	Q33932 listeria mo	1240	140	4.5	1175	2	Q7XDK0	Q7xdk0 oryza sativ
1168	142	4.5	633	2	Q8R063	Q8r063 mus musculu	1241	140	4.5	1509	1	GSRL_HUMAN	GSRL_HUMAN homo sapien
1169	142	4.5	661	1	C180_MOUSE	Q82192 mus musculu	1242	140	4.5	1690	2	Q9HFT8	Q9htf8 candida alb
1170	142	4.5	669	2	Q8BTT4	Q8btt4 m mus muscu	1243	140	4.5	1690	2	Q9P411	Q9p411 candida alb
1171	142	4.5	721	2	Q8BU17	Q8bu17 mus musculu	1244	140	4.5	1690	2	Q9P977	Q9p977 candida alb
1172	142	4.5	772	2	Q63E41	Q63e41 bacillus ce	1245	140	4.5	2082	2	Q6FW40	Q6fw40 candida gla
1173	142	4.5	896	2	Q7Q417	Q7q417 anopheles g	1246	139.5	4.4	164	2	Q6S4G5	Q6s4g5 petromyzon
1174	142	4.5	983	2	Q8L7L6	Q8l7l6 arabidopsis	1247	139.5	4.4	328	2	Q8K3K2	Q8k3k2 mus musculu
1175	142	4.5	983	2	Q9ZUK3	Q9zuk3 arabidopsis	1248	139.5	4.4	356	2	Q9Q0B2	Q9q0b2 human herpe
1176	142	4.5	1047	2	Q9LGH7	Q9lgh7 oryza sativ	1249	139.5	4.4	356	2	Q9Q0B3	Q9q0b3 human herpe
1177	142	4.5	1104	2	Q6Z8S8	Q6z8s8 oryza sativ	1250	139.5	4.4	356	2	Q9Q0B4	Q9q0b4 human herpe
1178	142	4.5	1173	2	Q84WF4	Q84wf4 arabidopsis	1251	139.5	4.4	356	2	Q9Q0B6	Q9q0b6 human herpe
1179	142	4.5	1270	2	Q6DKA2	Q6dka2 xenopus lae	1252	139.5	4.4	356	2	Q9Q0B9	Q9q0b9 human herpe
1180	142	4.5	2344	2	Q9N3Y8	Q9n3y8 caenorhabdi	1253	139.5	4.4	496	2	Q8GWY1	Q8gwy1 arabidopsis
1181	141.5	4.5	163	2	Q6E4G6	Q6e4g6 petromyzon	1254	139.5	4.4	506	2	Q9FFJ3	Q9ffj3 arabidopsis
1182	141.5	4.5	165	2	Q6E4M7	Q6e4m7 petromyzon	1255	139.5	4.4	527	2	Q9RUH2	Q9ruh2 deinococcus
1183	141.5	4.5	356	2	Q9Q0B7	Q9q0b7 human herpe	1256	139.5	4.4	539	2	Q8G334	Q8g334 mycobacteri
1184	141.5	4.5	356	2	Q9Q0B8	Q9q0b8 human herpe	1257	139.5	4.4	539	2	Q79F96	Q79f96 mycobacteri
1185	141.5	4.5	400	2	Q7UTG5	Q7utg5 rhodopirelli	1258	139.5	4.4	539	2	Q7TVM2	Q7tvm2 mycobacteri
1186	141.5	4.5	462	2	Q9S0H6	Q9sjh6 arabidopsis	1259	139.5	4.4	594	2	Q9LUQ2	Q9luq2 arabidopsis
1187	141.5	4.5	597	2	Q9VV09	Q9vv09 drosophila	1260	139.5	4.4	644	2	Q7SCQ9	Q7scq9 neurospora
1188	141.5	4.5	695	2	Q8R428	Q8r428 cavia porce	1261	139.5	4.4	696	2	Q98T85	Q98t85 ictalurus p
1189	141.5	4.5	836	2	Q9SCT4	Q9sct4 arabidopsis	1262	139.5	4.4	884	1	BC1B_MOUSE	BC1B_MOUSE mus musculu
1190	141.5	4.5	877	2	Q6PCV3	Q6pcv3 mus musculu	1263	139.5	4.4	1027	2	Q6V667	Q6v667 drosophila
1191	141.5	4.5	1029	2	Q6C580	Q6c580 arabidopsis	1264	139.5	4.4	1102	2	Q18902	Q18902 caenorhabdi
1192	141.5	4.5	1047	2	Q6K213	Q6k213 oryza sativ	1265	139.5	4.4	4351	1	FA1Z_RAT	FA1Z_RAT rattus norv
1193	141.5	4.5	1051	2	Q24007	Q24007 drosophila	1266	139	4.4	288	2	Q8F2B3	Q8f2b3 leptospira
1194	141.5	4.5	1051	2	Q95PA9	Q95pa9 drosophila	1267	139	4.4	344	2	Q61QQ7	Q61qq7 brachydanio
1195	141.5	4.5	1076	2	Q8MLT4	Q8mlt4 drosophila	1268	139	4.4	559	2	Q6ZTM8	Q6ztm8 homo sapien
1196	141.5	4.5	1076	2	Q6AWQ3	Q6awq3 drosophila	1269	139	4.4	581	2	Q03876	Q03876 trypanosoma
1197	141.5	4.5	1084	2	Q6YVY8	Q6yvy8 oryza sativ	1270	139	4.4	603	2	Q22075	Q22075 caenorhabdi
1198	141.5	4.5	1309	2	Q6ZPV4	Q6zpv4 mus musculu	1271	139	4.4	657	2	Q6Z3S1	Q6z3s1 oryza sativ
1199	141.5	4.5	1376	2	Q7S5H8	Q7s5h8 neurospora	1272	139	4.4	720	2	Q80809	Q80809 arabidopsis

1273	139	4.4	720	2	Q9SPER	Q9spe8 arabidopsis	1346	137	4.4	695	1	FSHR_SHEEP	P35379 ovis aries
1274	139	4.4	789	2	Q9AGH6	Qeagy6 leifsonia x	1347	137	4.4	765	2	Q6HLL6	Q6hll6 bacillus th
1275	139	4.4	795	2	Q6NJY1	Q6n5q1 mus musculus	1348	137	4.4	788	2	Q8Z578	Q8z578 salmonella
1276	139	4.4	829	2	Q6N5Q1	Q6n5q1 rhodospseudo	1349	137	4.4	907	1	VGP3_EBV	P03200 epstein-bar
1277	139	4.4	919	2	Q9HAP2	Q9hap2 homo sapien	1350	137	4.4	907	2	Q777F0	Q777f0 human herpe
1278	139	4.4	998	2	Q8LJ19	Q8lj19 oryza sativ	1351	137	4.4	928	2	Q9IMX9	Q9imx9 cercopithec
1279	139	4.4	1010	2	Q8H3W8	Q8h3w8 oryza sativ	1352	137	4.4	998	2	Q7QE40	Q7qe40 anopheles g
1280	139	4.4	1088	2	Q9FZS9	Q9fzs9 arabidopsis	1353	137	4.4	999	2	Q6H845	Q6h845 oryza sativ
1281	139	4.4	1174	2	Q94854	Q94854 homo sapien	1354	137	4.4	1004	2	Q8CGA7	Q8cga7 mus musculus
1282	139	4.4	2240	2	Q9S1Z9	Q9s1z9 streptomyce	1355	137	4.4	1059	2	Q8LI36	Q8li36 oryza sativ
1283	139	4.4	2427	2	Q6ZRS2	Q6zrs2 homo sapien	1356	137	4.4	1081	2	Q6ETA1	Q6eta1 oryza sativ
1284	139	4.4	3053	2	Q15026	Q15026 homo sapien	1357	137	4.4	1120	2	Q84RP5	Q84rp5 arabidopsis
1285	139	4.4	5179	1	MUC2_HUMAN	Q02817 homo sapien	1358	137	4.4	1141	2	Q9LHP4	Q9lhp4 arabidopsis
1286	138.5	4.4	342	1	LUM_BOVIN	Q05443 bos taurus	1359	137	4.4	1154	2	Q9P2F0	Q9p2p0 homo sapien
1287	138.5	4.4	559	2	Q7PHC6	Q7phc6 anopheles g	1360	137	4.4	1165	2	Q89V92	Q89v92 bradyrhizob
1288	138.5	4.4	811	2	Q6UXL3	Q6uxl3 homo sapien	1361	137	4.4	1354	2	Q9EPW8	Q9epw8 mus musculus
1289	138.5	4.4	882	2	Q84WPI	Q84wpl arabidopsis	1362	137	4.4	1357	2	Q6BMU2	Q6bmud debaryomyce
1290	138.5	4.4	893	2	Q9LN98	Q9ln98 arabidopsis	1363	137	4.4	1431	2	Q8WXD9	Q8wxd9 homo sapien
1291	138.5	4.4	897	2	Q8GC27	Q8gc27 listeria iv	1364	137	4.4	2646	2	Q6XHA6	Q6xha6 dictyosteli
1292	138.5	4.4	902	2	Q9UPR6	Q9upr6 homo sapien	1365	137	4.4	4544	1	LRPI_HUMAN	Q07954 homo sapien
1293	138.5	4.4	990	2	Q9UG03	Q9ug03 homo sapien	1366	137	4.4	4545	2	Q91ZX7	Q91zx7 mus musculus
1294	138.5	4.4	1003	1	MBD6_HUMAN	Q99645 homo sapien	1367	137	4.4	4545	2	Q920Y4	Q920y4 mus musculus
1295	138.5	4.4	1003	2	Q6P0P0	Q6p0p0 homo sapien	1368	137	4.4	4545	2	Q61291	Q61291 mus musculus
1296	138.5	4.4	1012	2	Q9LKZ5	Q9lkz5 glycine max	1369	136.5	4.4	271	2	Q99LG6	Q99lg6 mus musculus
1297	138.5	4.4	1164	2	Q9LJF3	Q9ljf3 arabidopsis	1370	136.5	4.4	277	2	Q9D031	Q9d031 mus musculus
1298	138.5	4.4	1355	2	Q6P9K8	Q6p9k8 mus musculus	1371	136.5	4.4	301	2	Q8CF63	Q8cf63 mus musculus
1299	138.5	4.4	1650	2	Q9QVT6	Q9qvt6 rattus sp.	1372	136.5	4.4	356	2	Q9QOC2	Q9qoc2 human herpe
1300	138	4.4	322	1	PGLB_HUMAN	Q99645 homo sapien	1373	136.5	4.4	356	2	Q9QOC3	Q9qoc3 human herpe
1301	138	4.4	451	2	Q7QIS1	Q7qis1 anopheles g	1374	136.5	4.4	356	2	Q9QOC4	Q9qoc4 human herpe
1302	138	4.4	465	2	Q641O7	Q641o7 homo sapien	1375	136.5	4.4	356	2	Q9QOC5	Q9qoc5 human herpe
1303	138	4.4	491	2	Q9V793	Q9v793 drosophila	1376	136.5	4.4	356	2	Q9QOC6	Q9qoc6 human herpe
1304	138	4.4	721	2	Q9NUY1	Q9nuyl homo sapien	1377	136.5	4.4	646	2	Q6QJ82	Q6qj82 xanthomonas
1305	138	4.4	727	2	Q8OZ16	Q8oz16 mus musculus	1378	136.5	4.4	673	2	Q8VJ25	Q8vj25 cercopithec
1306	138	4.4	784	2	Q6T752	Q6t752 equus cabal	1379	136.5	4.4	811	1	TLRA_HUMAN	Q9b3r5 homo sapien
1307	138	4.4	788	2	Q9RPH0	Q9rph0 salmonella	1380	136.5	4.4	849	2	O8CGE4	Q8cge4 mus musculus
1308	138	4.4	853	2	Q8C0R9	Q8c0r9 mus musculus	1381	136.5	4.4	933	2	Q69H08	Q69hq8 ciona intes
1309	138	4.4	883	2	Q9RF11	Q9rf11 myxococcus	1382	136.5	4.4	976	2	O8GSS7	Q8gss7 pisum sativ
1310	138	4.4	943	2	Q9SLR7	Q9slr7 arabidopsis	1383	136.5	4.4	1013	2	Q6Z9M8	Q6z9m8 oryza sativ
1311	138	4.4	1020	2	Q73YI1	Q73yyl mycobacteri	1384	136.5	4.4	1027	2	Q6V666	Q6v666 drosophila
1312	138	4.4	1034	2	Q8VHL7	Q8vhl7 mus musculus	1385	136.5	4.4	1027	2	Q6V669	Q6v669 drosophila
1313	138	4.4	1034	2	Q8VKS5	Q8vik5 mus musculus	1386	136.5	4.4	1027	2	Q6V671	Q6v671 drosophila
1314	138	4.4	1102	2	Q9LVP0	Q9lvp0 arabidopsis	1387	136.5	4.4	1027	2	Q6V672	Q6v672 drosophila
1315	138	4.4	1227	2	Q6FJ16	Q6fj16 homo sapien	1388	136.5	4.4	1031	2	Q6JN47	Q6jln47 lycopersico
1316	138	4.4	1369	2	Q6O346	Q6o346 homo sapien	1389	136.5	4.4	1359	2	Q8CHH0	Q8chn0 mus musculus
1317	138	4.4	1900	2	Q6CJV3	Q6cjb3 kluyveromyc	1390	136.5	4.4	1456	2	Q6PDJ8	Q6pdj8 mus musculus
1318	138	4.4	1992	2	Q9P6T1	Q9p6t1 neurospora	1391	136.5	4.4	1458	2	Q757N5	Q757n5 ashbya goss
1319	137.5	4.4	328	1	OPT_MOUSE	Q920a0 mus musculus	1392	136.5	4.4	1606	2	Q924A2	Q924a2 mus musculus
1320	137.5	4.4	356	2	Q9Q0C1	Q9q0c1 human herpe	1393	136.5	4.4	2971	2	Q9Y5L9	Q9y5l9 homo sapien
1321	137.5	4.4	398	2	Q8ERN9	Q8ern9 oryza sativ	1394	136	4.3	2971	2	Q6E4E7	Q6e4e7 petromyzon
1322	137.5	4.4	417	2	Q8HZ51	Q8hz51 canis famli	1395	136	4.3	293	2	Q7Q859	Q7q859 anopheles g
1323	137.5	4.4	423	1	OMD_MOUSE	Q35103 mus musculus	1396	136	4.3	321	1	PGLB_BOVIN	P79119 bos taurus
1324	137.5	4.4	656	2	Q9ASD8	Q9asd8 oryza sativ	1397	136	4.3	322	1	PGLB_MOUSE	P70186 mus musculus
1325	137.5	4.4	694	2	Q6R6L8	Q6r6l8 mesocricetu	1398	136	4.3	408	2	Q7PYM2	Q7pym2 anopheles g
1326	137.5	4.4	728	2	Q76N37	Q76n37 gallus gall	1399	136	4.3	440	2	O8PD36	O8pd36 xanthomonas
1327	137.5	4.4	784	2	Q8MIQ3	Q8miq3 oryctolagus	1400	136	4.3	537	2	Q9VFD0	Q9vfd0 drosophila
1328	137.5	4.4	812	2	Q9FMT0	Q9fmc0 arabidopsis	1401	136	4.3	544	1	GF10_DICDI	Q68885 dictyosteli
1329	137.5	4.4	889	2	Q9F2N5	Q9f2n5 streptomyce	1402	136	4.3	586	2	Q6K7R2	Q6k7r2 oryza sativ
1330	137.5	4.4	926	2	Q9VVG2	Q9vvg2 drosophila	1403	136	4.3	626	2	Q8ZHA0	Q8zha0 yersinia pe
1331	137.5	4.4	1027	2	Q6V670	Q6v670 drosophila	1404	136	4.3	688	2	Q64183	Q64183 rattus sp.
1332	137.5	4.4	1086	2	Q6ZMQ0	Q6zmq0 homo sapien	1405	136	4.3	692	1	FSHR_RAT	P20395 rattus norv
1333	137.5	4.4	1115	2	Q7QB67	Q7qb67 anopheles g	1406	136	4.3	695	1	FSHR_PIG	P49059 sus scrofa
1334	137.5	4.4	1151	2	Q57580	Q57580 gallus gall	1407	136	4.3	737	1	LGR8_MOUSE	Q91z25 mus musculus
1335	137.5	4.4	1325	2	Q9BKV7	Q9bkv7 leishmania	1408	136	4.3	750	2	Q9CW61	Q9cw61 mus musculus
1336	137.5	4.4	1430	2	Q8VHK2	Q8vhk2 rattus norv	1409	136	4.3	765	2	Q9XCW2	Q9xcw2 salmonella
1337	137.5	4.4	1437	2	Q6C1W8	Q6c1w8 yarrowia li	1410	136	4.3	766	2	Q6C1M0	Q6c1m0 yarrowia li
1338	137.5	4.4	4660	1	LRP2_RAT	P8158 rattus norv	1411	136	4.3	1008	1	PSKR_ARATH	Q9zvr7 arabidopsis
1339	137	4.4	260	2	Q7Q6A5	Q7q6a5 anopheles g	1412	136	4.3	1696	2	Q9WTE8	Q9wtr8 rattus norv
1340	137	4.4	264	2	Q8BMW1	Q8bmw1 m mus muscu	1413	136	4.3	2161	2	Q6MG48	Q6mg48 rattus norv
1341	137	4.4	357	2	Q9Q0C7	Q9q0c7 human herpe	1414	136	4.3	3084	2	Q8U211	Q8u211 pseudosabre
1342	137	4.4	357	2	Q9Q0C8	Q9q0c8 human herpe	1415	135.5	4.3	326	2	O22514	O22514 santalum al
1343	137	4.4	401	2	Q811K6	Q811k6 mus musculus	1416	135.5	4.3	427	1	MFGM_RAT	P70490 rattus norv
1344	137	4.4	542	2	Q81TD6	Q81td6 bacillus an	1417	135.5	4.3	464	2	Q8W4Q3	Q8w4q3 arabidopsis
1345	137	4.4	583	2	Q8BM77	Q8bm77 m mus muscu	1418	135.5	4.3	499	2	Q910Y0	Q910y0 pseudomonas

1419 135.5 4.3 652 2 Q86UU5 Q86uu5 homo sapien
 1420 135.5 4.3 887 2 Q89KP2 Q89kp2 bradyrhizob
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 1427 135 4.3 407 2 Q86RS5 Q86rs5 manduca sex
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 1434 135 4.3 727 2 Q8HXC8 Q8hxc8 macaca fasc
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 1461 134.5 4.3 1045 2 Q6Z1W9 Q6ziw9 oryza sativ
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 1463 134.5 4.3 1201 2 Q7TS77 Q7ts77 mus musculu
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 1465 134.5 4.3 1224 2 Q6ZPX1 Q6zpx1 mus musculu
 1466 134.5 4.3 1494 2 Q67FY1 Q67fy1 homo sapien
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 1472 134 4.3 496 2 Q7U8L8 Q7u8l8 synchococc
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 1476 134 4.3 805 2 Q66KF0 Q66kf0 xenopus lae
 1477 134 4.3 886 2 Q94294 Q94294 schizosacch
 1478 134 4.3 903 2 Q82HF3 Q82hf3 streptomyce
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 Q869j7 glomeris ma
 Q8rv89 oryza sativ
 Q7G6Q2 oryza sativ
 Q9vhv2 drosophila
 Q86nz3 drosophila
 Q8h121 homo sapien
 Q9h801 homo sapien
 Q6pff1 mus musculu

ALIGNMENTS

RESULT 1

Q6UXL5 PRELIMINARY; PRT; 598 AA.
 AC Q6UXL5
 DT 05-JUL-2004 (TREMBlrel. 27, Created)
 DT 05-JUL-2004 (TREMBlrel. 27, Last sequence update)
 DE CSRV314.
 GN ORFNames=UNQ314;
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;
 RA Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D., Brush J.,
 Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,
 Eaton D., Foster J., Grimaldi C., Gu Q., Hass P.E., Heidens S.,
 Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,
 Lewis L., Liao D., Mark M., Robbie E., Sanchez C., Schoenfeld J.,
 Seshagiri S., Simons L., Singh J., Smith V., Stinson J., Vagts A.,
 Vandlen R., Watanabe C., Wieand D., Woods K., Xie M.H., Yansura D.,
 Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A., Wood W.I.,
 Godowski P.;
 RT "The secreted protein discovery initiative (SPDI), a large-scale
 effort to identify novel human secreted and transmembrane proteins: a
 bioinformatics assessment.";

RT bioinformatics assessment.;
 RC Genome Res. 13:2265-2270(2003).
 RL -!- SIMILARITY: Contains 1 EGF-like domain.
 DR EMBL; AY358298; AAQ88665.1; -;
 DR InterPro: IPR000742; EGF 2.
 DR InterPro: IPR006209; EGF-like.
 DR InterPro: IPR003961; FN_III.
 DR InterPro: IPR006210; IEGF.
 DR InterPro: IPR001611; LRR.
 DR InterPro: IPR000483; LRR Cterm.
 DR InterPro: IPR000372; LRR Nterm.
 DR InterPro: IPR003591; LRR typ.
 DR Pfam; PF00008; EGF; 1.
 DR Pfam; PF00041; fn3; 1.
 DR Pfam; PF01463; LRRCT; 1.
 DR Pfam; PF01462; LRRNT; 1.
 DR Pfam; PF00560; LRR 1; 5.
 DR PRINTS; PR00019; LEURICHRPT.
 DR SMART; SM00181; EGF; 1.
 DR SMART; SM00082; LRRCT; 1.
 DR SMART; SM00013; LRRNT; 1.
 DR SMART; SM00369; LRR TYP; 5.
 DR PROSITE; PS00022; EGF 1; 1.
 DR PROSITE; PS01186; EGF_2; 1.
 DR PROSITE; PS00026; EGF_3; 1.
 DR PROSITE; PS00853; FN3; 1.
 KW EGF-like domain.
 SQ SEQUENCE 598 AA; 63029 MW; C596CEBE963AA86C CRC64;

Query Match 100.0%; Score 3135; DB 2; Length 598;
 Best Local Similarity 100.0%; Pred. No. 4.9e-167;
 Matches 598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;


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QY 106 LLALEPGILDTANVEALRLAGLQLOLDGLFSRLNHLHDLDVSDNQLERVPVIRGLRG 165
Db 181 LLALEPGILDTANVEALRLAGLQLOLDGLFSRLNHLHDLDVSDNQLERVPVIRGLRG 240
QY 166 LTRLRAGNTRIAQLRPEDLAGLAALQELDVSNLSQALPGDLGSLFPPRLRLAALAAARNPF 225
Db 241 LTRLRAGNTRIAQLRPEDLAGLAALQELDVSNLSQALPGDLGSLFPPRLRLAALAAARNPF 300
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Db 301 NCVCPLSWFGPWWRESHVTLASPEETRCHFPKPNAGRLLELDYADFGLPATTATVPT 360
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Db 361 TRPVVREPTALSSSLAPTWSLTAPATEAPSPSTAPPTVGVPPQDCPPSTCLNGGTC 420
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Db 601 RGRAMAAAQDKGVGPGAGPLEGKVPLEPGPKATEGGGEALPSGSECEVPLMGFFG 660
QY 586 PGLQSPHLHAKPYI 598
Db 661 PGLQSPHLHAKPYI 673

RESULT 3
Q6EMK4
ID Q6EMK4 PRELIMINARY; PRT; 673 AA.
AC Q6EMK4
DT 25-OCT-2004 (TREMBLrel. 28, Created)
DT 25-OCT-2004 (TREMBLrel. 28, Last sequence update)
DT 25-OCT-2004 (TREMBLrel. 28, Last annotation update)
DE Vasorin.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX PubMed=15247411; DOI=10.1073/pnas.0404117101;
RA Ikeda Y., Imai Y., Kunagai H., Noseka T., Morikawa Y., Hisaoka T.,
RA Manabe I., Maemura K., Nakaoka T., Imamura T., Miyazono K., Komuro I.,
RA Nagai R., Kitamura T.;
RT "Vasorin, a transforming growth factor (beta)-binding protein
RT expressed in vascular smooth muscle cells, modulates the arterial
RT response to injury in vivo.";
RL Proc. Natl. Acad. Sci. U.S.A. 101:10732-10737(2004).
CC -!- SIMILARITY: Contains 1 EGF-like domain.
DR EMBL; AY166584; AA027704.1; -.
DR InterPro; IPR000742; EGF 2.
DR InterPro; IPR006209; EGF-like.
DR InterPro; IPR003961; FN III.
DR InterPro; IPR008957; FN III-like.
DR InterPro; IPR006210; IEGF.
DR InterPro; IPR001611; LRR.
DR InterPro; IPR000483; LRR Cterm.
DR InterPro; IPR003885; LRR Cyst.
DR InterPro; IPR000372; LRR Nterm.
DR InterPro; IPR000351; LRR typ.
DR Pfam; PF00008; EGF; 1.
DR Pfam; PF00041; fn3; 1.
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DR Pfam; PF01462; LRRNT; 1.
DR Pfam; PF00560; LRR 1; 9.
DR PRINTS; PRO0019; LEURICRPT.
DR SMART; SM00181; EGF; 1.
DR SMART; SM00082; LRRCT; 1.
DR SMART; SM00013; LRRNT; 1.
DR SMART; SM00365; LRR SD22; 4.
DR SMART; SM00369; LRR TYP; 8.
DR PROSITE; PS00022; EGF 1; 1.
DR PROSITE; PS01186; EGF 2; 1.
DR PROSITE; PS50026; EGF 3; 1.
DR PROSITE; PS50853; FN3; 1.
KW EGF-like domain.
SQ SEQUENCE 673 AA; 71712 MW; 891E149652DEA286 CRC64;

Query Match 98.2%; Score 3078.5; DB 2; Length 673;
Best Local Similarity 88.6%; Pred. No. 7.9e-164;
Matches 596; Conservative 0; Mismatches 2; Indels 75; Gaps 1;

QY 1 MCSRVPLLLPLLLLLALGEGVQGCSPGSCQCSQPTVFCRTARQGTTPRDRVPPDVTGLYVF 60
Db 1 MCSRVPLLLPLLLLLALGEGVQGCSPGSCQCSQPTVFCRTARQGTTPRDRVPPDVTGLYVF 60
QY 61 ENGITWLDASSFAGLPGLQLDLSONQIAS----- 90
Db 61 ENGITWLDAGSAGLPGLQLDLSONQIASPSGVFQPLANLSNLDLTANLHEITNETF 120
QY 91 ----- 120
Db 91 ----- 120
QY 121 RGLRLRLRYLGNKRI RHIQGAFDTLRLLELKLQDNELRALPPURLRLLLLDLSHNS 180
Db 121 RGLRLRLRYLGNKRI RHIQGAFDTLRLLELKLQDNELRALPPURLRLLLLDLSHNS 180
QY 106 LLALEPGILDTANVEALRLAGLQLOLDGLFSRLNHLHDLDVSDNQLERVPVIRGLRG 165
Db 181 LLALEPGILDTANVEALRLAGLQLOLDGLFSRLNHLHDLDVSDNQLERVPVIRGLRG 240
QY 166 LTRLRAGNTRIAQLRPEDLAGLAALQELDVSNLSQALPGDLGSLFPPRLRLAALAAARNPF 225
Db 241 LTRLRAGNTRIAQLRPEDLAGLAALQELDVSNLSQALPGDLGSLFPPRLRLAALAAARNPF 300
QY 226 NCVCPLSWFGPWWRESHVTLASPEETRCHFPKPNAGRLLELDYADFGLPATTATVPT 285
Db 301 NCVCPLSWFGPWWRESHVTLASPEETRCHFPKPNAGRLLELDYADFGLPATTATVPT 360
QY 286 TRPVVREPTALSSSLAPTWSLTAPATEAPSPSTAPPTVGVPPQDCPPSTCLNGGTC 345
Db 361 TRPVVREPTALSSSLAPTWSLTAPATEAPSPSTAPPTVGVPPQDCPPSTCLNGGTC 420
QY 346 HLGTRHHLACLCEGFTGLYCDSOMQGTFRPSPTVTPRPRSLTLGIEPVSPSTLRVGL 405
Db 421 HLGTRHHLACLCEGFTGLYCDSOMQGTFRPSPTVTPRPRSLTLGIEPVSPSTLRVGL 480
QY 406 QRYLOGSSVQLRSRLTYRNLSGPDKRLVTLRLPASLAETVTVTLRPNATYSVCMPLGP 465
Db 481 QRYLOGSSVQLRSRLTYRNLSGPDKRLVTLRLPASLAETVTVTLRPNATYSVCMPLGP 540
QY 466 GRVPEGEACGEAHTPPAVHSNHAPVTOAREGNLPLIIAPALAAVLLAALAAVGAAYCVR 525
Db 541 GRVPEGEACGEAHTPPAVHSNHAPVTOAREGNLPLIIAPALAAVLLAALAAVGAAYCVR 600
QY 526 RGRAMAAAQDKGVGPGAGPLEGKVPLEPGPKATEGGGEALPSGSECEVPLMGFFG 585
Db 601 RGRAMAAAQDKGVGPGAGPLEGKVPLEPGPKATEGGGEALPSGSECEVPLMGFFG 660
QY 586 PGLQSPHLHAKPYI 598
Db 661 PGLQSPHLHAKPYI 673

RESULT 4
Q96CX1
ID Q96CX1 PRELIMINARY; PRT; 601 AA.
AC Q96CX1
```

```
DT 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE LOC114990 protein (Fragment).
GN Name=LOC114990;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Lung;
RX PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Rana S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mulliahy S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Krywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E.,
RA Jones S.J., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Lung;
RA Director MGC Project;
RA Submitted (SEP-2001) to the EMBL/GenBank/DBJ databases.
CC -!- SIMILARITY: Contains 1 EGF-like domain.
DE EMBL; BC013767; AAH13767.1; -.
DR HSSP; Q9BZR6; 1P8T.
DR InterPro; IPR000742; EGF 2.
DR InterPro; IPR006209; EGF-like.
DR InterPro; IPR003961; FN3_III.
DR InterPro; IPR006210; IEGF.
DR InterPro; IPR001611; LRR.
DR InterPro; IPR000483; LRR Cterm.
DR InterPro; IPR003591; LRR typ.
DR Pfam; PF00008; EGF; 1.
DR Pfam; PF00041; fn3; 1.
DR Pfam; PF01463; LRRCT; 1.
DR Pfam; PF00560; LRR; 1.
DR PRINTS; PR000119; LEURICHRPT.
DR SMART; SM00181; EGF; 1.
DR SMART; SM00050; FN3; 1.
DR SMART; SM00082; LRRCT; 1.
DR SMART; SM00369; LRR typ; 2.
DR PROSITE; PS00022; EGF 1; 1.
DR PROSITE; PS01186; EGF 2; 1.
DR PROSITE; PS00026; EGF_3; 1.
DR PROSITE; PS00853; FN3; 1.
KW EGF-like domain.
FT NON TER
SQ SEQUENCE 601 AA; 64178 MW; 4964077F778D9ADB2 CRC64;
Query Match 86.0%; Score 2697.5; DB 2; Length 601;
Best Local Similarity 87.4%; Pred. No. 1.3e-142;
Matches 525; Conservative 0; Mismatches 1; Indels 75; Gaps 1;
Qy 73 AGLPGLQLDLDSQNGIAS----- 90
Db 1 AGLPGLQLDLDSQNGIASLPSGVQFPLANSLNLDLTANRLHETITNTPRGLRRLRLYLIG 60
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Qy 91 -----LRLPRLLLDLSHNSLLALEPGILDTA 117
Db 61 KNIRHITQGAFTLDRLLELKQDNELRALPPURLPRLLLDLUSHNSLLALEPGILDTA 120
Qy 118 NVEALRLAGLQQLDEGLFSRLRNLDLVDSDNQLERVPVIRGLRGLTLRLAGNTRI 177
Db 121 NVEALRLAGLQQLDEGLFSRLRNLDLVDSDNQLERVPVIRGLRGLTLRLAGNTRI 180
Qy 178 AQLRPEDLAGLAALQELDVNSLSQALPGDLISGLFPRILRLAAARNPFCVPLSWFGPW 237
Db 181 AQLRPEDLAGLAALQELDVNSLSQALPGDLISGLFPRILRLAAARNPFCVPLSWFGPW 240
Qy 238 VRESHVTLASPEETRCHFPKPNAGRLLELDYADFGCPATTTTATVPTTRPVVREPTALS 297
Db 241 VRESHVTLASPEETRCHFPKPNAGRLLELDYADFGCPATTTTATVPTTRPVVREPTALS 300
Qy 298 SSLAPTWLSPTAPATEAPSPPTAPPTVGPVQPDQCPPTCLNGGTCGLGTRHHLACL 357
Db 301 SSLAPTWLSPTAPATEAPSPPTAPPTVGPVQPDQCPPTCLNGGTCGLGTRHHLACL 360
Qy 358 PEGTGLYCSQMGQGRPSPTPTVTPRPSRLTIGIEPVSPSTSLRVGLQRYLQSSVQLR 417
Db 361 PEGTGLYCSQMGQGRPSPTPTVTPRPSRLTIGIEPVSPSTSLRVGLQRYLQSSVQLR 420
Qy 418 SLRLTYNLSGPKRLVTLRLPASLAETVTLQRPNTATYSCVMPLGPRVPEGEACGE 477
Db 421 SLRLTYNLSGPKRLVTLRLPASLAETVTLQRPNTATYSCVMPLGPRVPEGEACGE 480
Qy 478 AHTPPAVHSHNAPVTOAREGNLPLLIAPALAAVLLAALAAVGAAYCVRGRGMAAAADK 537
Db 481 AHTPPAVHSHNAPVTOAREGNLPLLIAPALAAVLLAALAAVGAAYCVRGRGMAAAADK 540
Qy 538 GQVGPAGGLEGVKVPLEPGPKATGGEGEALPSGSECEVPLMGFPQPGIQLSPHAKPY 597
Db 541 GQVGPAGGLEGVKVPLEPGPKATGGEGEALPSGSECEVPLMGFPQPGIQLSPHAKPY 600
Qy 598 I 598
Db 601 I 601
RESULT 5
Q8BJU0 PRELIMINARY; PRT; 673 AA.
ID Q8BJU0
AC Q8BJU0;
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Mus musculus 9 days embryo whole body cDNA, RIKEN full-length enriched
DE library, clone:D03006D07 product:hypothetical Prokaryotic membrane
DE lipoprotein lipid attachment site/Cysteine-rich flanking region, N-
DE terminal/Leucine-rich repeat/EGF-like domain/Leucine-rich repeat, N-
DE typical subtype/Leucine-rich repeat, outliers/Cysteine-rich flanking
DE region, C-terminal/Leucine-rich region/Fibronectin type III domain
DE containing protein, full insert sequence.
GN Name=Slit12;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Whole body;
RC MEDLINE=99279253; PubMed=10349636; DOI=10.1016/S0076-6879(99)03004-9;
RX Carninci P., Hayashizaki Y.;
RT "High-efficiency full-length cDNA cloning.";
RL Meth. Enzymol. 303:19-44(1999).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Whole body;
RC MEDLINE=21085660; PubMed=11217851; DOI=10.1038/35055500;
RX RIKEN FANTOM Consortium;
RA "Functional annotation of a full-length mouse cDNA collection.";
RT
```



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RA Schrewe H., Kutejova E.;
RL Submitted (APR-2002) to the EMBL/GenBank/DBJ databases.
RN [2]
RC SEQUENCE FROM N.A.
RX STRAIN=FVB/N; TISSUE=Kidney;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shemen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buettow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldi M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshionki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Krzywinski M.I., Skalska U., Smalhus D.E., Schnerch A., Schein J.E.,
RA Jones S.J., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
RN [3]
RC SEQUENCE FROM N.A.
RX STRAIN=FVB/N; TISSUE=Kidney;
RA Strausberg R.;
RL Submitted (APR-2003) to the EMBL/GenBank/DBJ databases.
CC !- SIMILARITY: Contains 1 EGF-like domain.
DR EMBL; AJ458938; CAD30331.1; -.
DR EMBL; BC050274; AAHS0274.1; -.
DR HSSP; P00740; IEDM.
DR MGD; MGI:2177651; Slit12.
DR InterPro; IPR000742; EGF_2.
DR InterPro; IPR006209; EGF-like.
DR InterPro; IPR003961; FN III.
DR InterPro; IPR006210; IEGF.
DR InterPro; IPR001611; LRR.
DR InterPro; IPR000483; LRR Cterm.
DR InterPro; IPR000372; LRR Nterm.
DR InterPro; IPR003591; LRR_type.
DR Pfam; PF00008; EGF_1.
DR Pfam; PF00441; fn3_1.
DR Pfam; PF01463; LRRCT_1.
DR Pfam; PF01462; LRRNT_1.
DR Pfam; PF00560; LRR_1.
DR PRINTS; PR00019; LEURICHRPT.
DR SMART; SM00181; EGF_1.
DR SMART; SM00060; FN3_1.
DR SMART; SM00082; LRRCT_1.
DR SMART; SM00013; LRRNT_1.
DR SMART; SM00369; LRR_TYP_3.
DR PROSITE; PS00022; EGF_1; UNKNOWN_1.
DR PROSITE; PS01186; EGF_2; 1.
DR PROSITE; PS00026; EGF_3; 1.
DR PROSITE; PS08553; FN3_1.
KW EGF-like domain; Signal.
FT SIGNAL 1 24 Potential.
FT CHAIN 25 673 Slit-like 2 protein.
SQ SEQUENCE 673 AA; 72260 MW; AAB8DA82DA8E9D32 CRC64;

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Query Match 79.4%; Score 2490; DB 2; Length 673;
Best Local Similarity 73.5%; Pred. No. 5,4e-131;
Matches 491; Conservative 25; Mismatches 74; Indels 78; Gaps 3;

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QY 6 PLLLP LLLLLLALGPVQGCPSQCQSQPQTCTARQGTTPRDPVPPDTVGLYFENGIT 65
DB 9 PLL-- LLLLVLLGSGVQGCPSQCQSQPQTCTARQGTTPRDPVPPDTVGLYFENGIT 66
QY 66 MLDASSFAGLPGQLLDLSQNIAS----- 90

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Db 67 TLDVGCFAGLPGQLLDLSQNIASLTSFGGIFQPLVNLNLDLTANKLHEISNETFRGLR 126
QY 91 -----LRLPRLLLDLSHNSLLALE 110
Db 127 LERLYLGNKRIRHIQPGAFDALLRLLLEKLPDNELRVLPPLHLPRLLLDLSHNSIPALE 186
QY 111 PGILDTANVEALRLAGLQGLDEGLFSRLNHLHDVSDNOLERVPPVIRGLRGLTLRL 170
Db 187 AGILDTANVEALRLAGLQGLDEGLFGRLLNHLHDVSDNOLHMPFSVIOGLRGLTLRL 246
QY 171 LAGNTRIAQLRPEDLAGLAAQLDELVDNLSLQALPGDLGSLFPRRLIAAARNFNCVCP 230
Db 247 LAGNTRIAQLRPEDLAGLQGLDELVDNLSLQALPSDLSLFPRLRLAAARNFNCVCP 306
QY 231 LSWFGPVRVSHVTLASPEETRCHFPKPNAGRLLELDYADFGCPATTTTATVPTTRPV 290
Db 307 LSWFGPVRVSHVTLASPEETRCHFPKPNAGRLLELDYADFGCPVTTTATVPTTRSTI 366
QY 291 REPTALSSSLAPTWLSPTAPATEAPSPSTAPTPVGPVPODCCPSTCLNGCTHLGTR 350
Db 367 REPTALSSSLAPTWLSPTAPATEAPSPSTAPTPVGPVPODCCPSTCLNGCTHLGTR 426
QY 351 HHLACLCEPGFTGLYCESQMGQGRPSPTVTPRPRSLTLGIEBPVSPTSRLVGLQRYLQ 410
Db 427 HHWECLCEPGFTGLYCESQMGQGRPSPTVTPRPRSLTLGIEBPVSPTSRLVGLQRYLQ 486
QY 411 GSSVQLSRLTYRNLSGDPKRLVTLRLPASLAETVTVQLRPNATYSVCVMPPLGPRVPE 470
Db 487 GNTVQLSRLTYRNLSGDPKRLVTLRLPASLAETVTVQLRPNATYSVCVMPPLGPRVPE 546
QY 471 GEEACGEANTPPAVHSHNAPVTOAREGNLPLLIAPALAAVLLAALAAVGAAYCVRGRAM 530
Db 547 GEEACGEANTPPAVHSHNAPVTOAREGNLPLLIAPALAAVLLAALAAVGAAYCVRGRAM 605
QY 531 AAAAQDKGVQPGAGPLEGKVPLEPGKATGEGEALPSGSECEVPLMGFPQGLQS 590
Db 606 TSTAQDKGVQPGAGPLEGKVPLEPGKATGEGEALPSGSECEVPLMGFPQGLQS 665
QY 591 PLHAKPYI 598
Db 666 VLPKHYI 673

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RESULT 7

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Q9CZT5 PRELIMINARY; PRT; 673 AA.
ID Q9CZT5;
AC Q9CZT5;
DT 01-JUN-2001 (TrEMBLrel. 17, Created)
DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
DE Mus musculus 10 days embryo whole body cDNA, RIKEN full-length
DE enriched library, clone:2610528G05 product:hypothetical prokaryotic
DE membrane lipoprotein lipid attachment site/Cysteine-rich flanking
DE region, N-terminal/Leucine-rich repeat/EGF-like domain/Leucine-rich
DE repeat, typical subtype/Leucine-rich repeat, outliers/Cysteine-rich
DE flanking region, C-terminal/Leucine-rich region/Fibronectin type III
DE domain containing protein, full insert sequence.
GN Name=Slit12;
OS Mus musculus (Mouse);
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RC SEQUENCE FROM N.A.
RX STRAIN=C57BL/6J; TISSUE=whole body;
RA MEDLINE=99279253; PubMed=10349636; DOI=10.1016/S0076-6875(99)03004-9;
RA Carninci P., Hayashizaki Y.;
RT "High-efficiency full-length cDNA cloning.";
RL Meth. Enzymol. 303:19-44 (1999).
RN [2]
RC SEQUENCE FROM N.A.
RX STRAIN=C57BL/6J; TISSUE=Whole body;

```


RESULT 10

Db 181 -IDALPGCVFAQLSRLDLTSNRLATLAPD--PLFSRGDAEASPSPLVLSFGNPLH 237
 Qy 227 CVCPLSWFGPWRVSHVTLASPEETR-CHFPKKNAGRLLLLELDYADFCGPATTTTATVPT 285
 Db 238 CNECLLMWR-----RLARPDDLETSCASPTTLAGRYFVAVPEGEFSC----- 278
 Qy 286 TRPVVREPTALSSSLAPTWLSPTAPAT---EAPSPPTAPPTVGPVPOQD----- 333
 Db 279 -----EPPLIARHTQRLWLVLEGQATLRCALGDVPVTMHWG-----PDDRVLVGNSSRA 328
 Qy 334 -CPSTCLNGGTCHLGRHHLACL-PEGFTGLYCESQM-----CQGTTPSPPT 380
 Db 329 WAFPNGTLEIGVTGAGDAGATCIATNPAGEATARVELRVLALPHGGNTSAEGGRPGPSD 388
 Qy 381 VTPRPPRL-----TLGTEP---VSPTSRLVGLQRYLQSSVQ-LRSLRLTLVNLSSGPKR 432
 Db 389 IAASARTAAEGEGTLESEPAVQVTEVTATSGLVSMGLGRPADPVMWFQIQYN--SSEDET 446
 Qy 433 LVTLRLPASLAETVTLQRLPNATYSVCVMPGLGPRVPEGEA-----CGEAHTPPAVHSN 487
 Db 447 LIYRIVPASSHHFLKHLVPGADYDLCCLALSPAAGPSDLTATRLGCAHFSTLPANPLC 506
 Qy 488 HAPVTOAREGNPLLIAPALAAVLLAALAAVGAAYCVRGRAMAAAQDKQGVGEGAGPL 547
 Db 507 HALQAHVLGGTLTV---AVGGVLAALLVFTVALLV-RGRG-----AGNRLPL 551
 Qy 548 ELEGVKVPLEGPKATGEGGALP 571
 Db 552 KLSHVQ-----SQTNGGTSPMP 568

RESULT 11

Q8K3C4 ID Q8K3C4 PRELIMINARY; PRT; 636 AA.
 AC Q8K3C4;
 DT 01-OCT-2002 (TRENBLrel. 22, Created)
 DT 01-OCT-2002 (TRENBLrel. 22, Last sequence update)
 DT 01-MAR-2004 (TRENBLrel. 26, Last annotation update)
 DE Lrfn4 protein.
 GN Name=lrfn4;
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAINS=FVB/N; TISSUE=Mammary tumor. C3;
 RX MEDLINE=2238257; PubMed=12477932; DOI=10.1073/pnas.242603899;
 RA Straubeberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
 RA Klausner R.D., Collins F.S., Wagner L., Shermen C.M., Schuler G.D.,
 RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
 RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
 RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
 RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
 RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
 RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
 RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
 RA Villalon D.K., Muzny K.C., Sodergren E.J., Lu X., Gibbs R.A.,
 RA Fahey J., Helton E., Kettman M., Madan A., Rodrigues S., Sanchez A.,
 RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
 RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
 RA Rodriguez A.C., Grinwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
 RA Krzyzanski M.I., Skalska U., Smalish D.E., Schnerch A., Schein J.E.,
 RA Jones S.J., Marra M.A.;
 RT "Generation and initial analysis of more than 15,000 full-length human
 RT and mouse cDNA sequences."
 RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
 RN [2]
 RP SEQUENCE FROM N.A.
 RC STRAINS=FVB/N; TISSUE=Mammary tumor. C3;
 RA Straubeberg R.;
 RL Submitted (FEB-2002) to the EMBL/GenBank/DBJ databases.

DR EMBL; BC023156; AAH23156.1; -.
 DR HSSP; O9BZR6; 1P8T.
 DR MGD; MGI:2385612; lrfn4.
 DR InterPro; IPR003961; FN III.
 DR InterPro; IPR007110; Ig-like.
 DR InterPro; IPR003598; Ig c2.
 DR InterPro; IPR001611; LRR.
 DR InterPro; IPR000483; LRR_Cterm.
 DR InterPro; IPR000372; LRR_Nterm.
 DR InterPro; IPR003591; LRR_Typ.
 DR Pfam; PF00041; fn3; 1.
 DR Pfam; PF00560; LRR 1; 6.
 DR PRINTS; PR00019; LEURICHRPT.
 DR SMART; SM00060; FN3; 1.
 DR SMART; SM00408; IGC2; 1.
 DR SMART; SM00082; LRRCT; 1.
 DR SMART; SM00013; LRRNT; 1.
 DR SMART; SM00369; LRR_TVP; 2.
 DR PROSITE; PS00853; FN3; 1.
 DR PROSITE; PS00835; IG LIKE; 1.
 SQ SEQUENCE 636 AA; 67264 MW; 9CE86E8A3981A884 CRC64;
 Query Match 11.1%; Score 348; DB 2; Length 636;
 Best Local Similarity 27.2%; Pred. No. 1.7e-11;
 Matches 170; Conservative 62; Mismatches 276; Indels 116; Gaps 25;
 Qy 8 LLPLLLLALGPGVGQCPSCQC---SQQTVFTCTARQGTTPRDVPPDTVLGVFENG I 64
 Db 1 MAPPLLLLLASGAACPLPCVCQNLSELSLTLCAHRLGLFVPPVNDRTVELRLADNFI 60
 Qy 65 TMLDASSFAGLPGQLLDLSQNOIASL-----RLPRLLLDLGSHNSLAL-EPGILDTA 117
 Db 61 QALGPPDPFRNMTGLVDTLNRNATIRIGARSFGDLSRLSHLDGNRLVELGSSSLRGPV 120
 Qy 118 NVEALRIAGLQQLDRGLFSR-LRNLHLDVSDNQLERVP-PVIRGLRGLTRLRAGNT 175
 Db 121 NLQHLILSGNQLGRIAPGAFDDFLDSLELDVSNLNRQVPWAGIGSPALHTLNLHNL 180
 Qy 176 RIAQLRPEDLAGLAOLBELDVNSLQALPGDLGSLFPLRL-----LLAARNPFN 226
 Db 181 -IDALPGCVFAQLSRLDLTSNRLATLAPD--PLFSRGDAEASPSPLVLSFGNPLH 237
 Qy 227 CVCPLSWFGPWRVSHVTLASPEETR-CHFPKKNAGRLLLLELDYADFCGPATTTTATVPT 285
 Db 238 CNECLLMWR-----RLARPDDLETSCASPTTLAGRYFVAVPEGEFSC----- 278
 Qy 286 TRPVVREPTALSSSLAPTWLSPTAPAT---EAPSPPTAPPTVGPVPOQD----- 333
 Db 279 -----EPPLIARHTQRLWLVLEGQATLRCALGDVPVTMHWG-----PDDRVLVGNSSRA 328
 Qy 334 -CPSTCLNGGTCHLGRHHLACL-PEGFTGLYCESQM-----CQGTTPSPPT 380
 Db 329 WAFPNGTLEIGVTGAGDAGATCIATNPAGEATARVELRVLALPHGGNTSAEGGRPGPSD 388
 Qy 381 VTPRPPRL-----TLGTEP---VSPTSRLVGLQRYLQSSVQ-LRSLRLTLVNLSSGPKR 432
 Db 389 IAASARTAAEGEGTLESEPAVQVTEVTATSGLVSMGLGRPADPVMWFQIQYN--SSEDET 446
 Qy 433 LVTLRLPASLAETVTLQRLPNATYSVCVMPGLGPRVPEGEA-----CGEAHTPPAVHSN 487
 Db 447 LIYRIVPASSHHFLKHLVPGADYDLCCLALSPAAGPSDLTATRLGCAHFSTLPANPLC 506
 Qy 488 HAPVTOAREGNPLLIAPALAAVLLAALAAVGAAYCVRGRAMAAAQDKQGVGEGAGPL 547
 Db 507 HALQAHVLGGTLTV---AVGGVLAALLVFTVALLV-RGRG-----AGNRLPL 551
 Qy 548 ELEGVKVPLEGPKATGEGGALP 571
 Db 552 KLSHVQ-----SQTNGGTSPMP 568

RESULT 12
 Q8BLIU0

493 LVPLDAFNRYTVEDTICSEATTHASYLNGNSNTASSHEQTTHSHMGS-PFLLAGLIGGAV 551

512 LAALAAGAAVC---VRRGR 528

552 IFVLVLLSVFCWHMKGR 571

RESULT 13

Q8BHA1 PRELIMINARY; PRT; 521 AA.

ID Q8BHA1

AC Q8BHA1;

DT 01-MAR-2003 (TREMELrel. 23, Last sequence update)

DT 01-MAR-2003 (TREMELrel. 23, Last sequence update)

DT 25-OCT-2004 (TREMELrel. 28, Last annotation update)

DE Mus musculus 0 day neonate cerebellum cDNA, RIKEN full-length enriched library, clone:C23002N12 product:hypothetical Zinc carboxypeptidases, carboxypeptidase A metalloprotease (M14) family containing protein, full insert

DE RIKEN full-length enriched library, clone:6430402H13

DE product:hypothetical Zinc carboxypeptidases, carboxypeptidase A metalloprotease (M14) family containing protein, full insert

DE sequence)

GN Name=EI30306101Rik;

OS Mus musculus (Mouse).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

OX NCBI_TaxID=10090;

[1]

RP SEQUENCE FROM N.A.

RC STRAIN=C57BL/6J; TISSUE=Cerebellum, and Olfactory brain;

RX MEDLINE=92279253; PubMed=10349636; DOI=10.1016/S0076-6879(99)03004-9; Carninci P., Hayashizaki Y.;

RT "High-efficiency full-length cDNA cloning.";

RL Meth. Enzymol. 303:19-44 (1999).

[2]

RP SEQUENCE FROM N.A.

RC STRAIN=C57BL/6J; TISSUE=Cerebellum, and Olfactory brain;

RX MEDLINE=21085660; PubMed=11217851; DOI=10.1038/35055500; RIKEN FANTOM Consortium;

RT "Functional annotation of a full-length mouse cDNA collection.";

RL Nature 409:685-690 (2001).

[3]

RP SEQUENCE FROM N.A.

RC STRAIN=C57BL/6J; TISSUE=Cerebellum, and Olfactory brain;

RA The FANTOM Consortium,

RA the RIKEN Genome Exploration Research Group Phase I & II Team;

RT "Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs.";

RL Nature 420:563-573 (2002).

[4]

RP SEQUENCE FROM N.A.

RC STRAIN=C57BL/6J; TISSUE=Cerebellum, and Olfactory brain;

RX MEDLINE=20499374; PubMed=11042159; DOI=10.1101/gr.145100; Carninci P., Shibata Y., Hayatsu N., Sugahara Y., Shibata K., Itoh M., Konno H., Okazaki Y., Muramatsu M., Hayashizaki Y.;

RT "Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes.";

RL Genome Res. 10:1617-1630 (2000).

[5]

RP SEQUENCE FROM N.A.

RC STRAIN=C57BL/6J; TISSUE=Cerebellum, and Olfactory brain;

RX MEDLINE=20530913; PubMed=11078661; DOI=10.1101/gr.152600; Shibata K., Itoh M., Aizawa K., Nagao K., Nagao S., Sasaki N., Carninci P., Konno H., Akiyama J., Nishi K., Kitsuunai T., Tashiro H., Itoh M., Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A., Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K., Fujiwaka S., Inoue K., Togawa Y., Izawa M., Ohara E., Watahiki M., Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsura S., Kawai J., Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;

RT "RIKEN integrated sequence analysis (RISA) system-384-format sequencing pipeline with 384 multicapillary sequencer.";

RL Genome Res. 10:1757-1771 (2000).

[6]

RP SEQUENCE FROM N.A.

RC STRAIN=C57BL/6J; TISSUE=Cerebellum;

RA Adachi J., Aizawa K., Akimura T., Arakawa T., Bono H., Carninci P., Fukuda S., Furuno M., Hanagaki T., Hara A., Hashizume W., Hayashida K., Hayatsu N., Hiramoto K., Hiraoka T., Hirozane T., Hori F., Imotani K., Ishii Y., Itoh M., Kagawa I., Kasukawa T., Katoh H., Kawai J., Kojima Y., Kondo S., Konno H., Kouda M., Koya S., Kurihara C., Matsuyama T., Miyazaki A., Murata M., Nakamura M., Nishi K., Nomura K., Numazaki R., Ohno M., Ohsato N., Okazaki Y., Saito R., Saitoh H., Sakai C., Sakai K., Sakazume N., Sano H., Sasaki D., Shibata K., Shinagawa A., Shiraki T., Sogabe Y., Tagami M., Tagawa A., Takahashi F., Takaku-Akaira S., Takeda Y., Tanaka T., Tomaru A., Toya T., Yasunishi A., Muramatsu M., Hayashizaki Y.;

RL Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.

[7]

RP SEQUENCE FROM N.A.

RC STRAIN=C57BL/6J; TISSUE=Olfactory brain;

RA Adachi J., Aizawa K., Akimura T., Arakawa T., Bono H., Hashizume W., Fukuda S., Furuno M., Hanagaki T., Hara A., Hashizume W., Hayashida K., Hayatsu N., Hiramoto K., Hiraoka T., Hirozane T., Katoh H., Kawai J., Kojima Y., Itoh M., Kagawa I., Kasukawa T., Kurihara C., Matsuyama T., Miyazaki A., Murata M., Nakamura M., Nishi K., Nomura K., Numazaki R., Ohno M., Ohsato N., Okazaki Y., Saito R., Saitoh H., Sakai C., Sakai K., Sakazume N., Sano H., Sasaki D., Shibata K., Shinagawa A., Shiraki T., Sogabe Y., Tagami M., Tagawa A., Takahashi F., Takaku-Akaira S., Takeda Y., Tanaka T., Tomaru A., Toya T., Yasunishi A., Muramatsu M., Hayashizaki Y.;

RL Submitted (APR-2002) to the EMBL/GenBank/DBJ databases.

EMBL; AK048678; BAC33419.1; -

EMBL; AK078176; BAC37163.1; -

HSSP; Q9BZR6; 10ZN.

MGD; MGI:2445060; EI30306101Rik.

GO; GO:0004180; F:carboxypeptidase activity; IEA.

GO; GO:0008237; F:metallopeptidase activity; IEA.

InterPro; IPR007110; Iq-like.

InterPro; IPR003598; Iq C2.

InterPro; IPR001611; LRR.

InterPro; IPR000483; LRR_Cterm.

InterPro; IPR000372; LRR_Nterm.

InterPro; IPR003591; LRR_typ.

Pfam; PF01463; LRRCT; 1.

Pfam; PF00560; LRR.1; 6.

PRINTS; PR00019; LEURICRPT.

SMART; SM00408; IGC2; 1.

SMART; SM00082; LRRCT; 1.

SMART; SM00013; LRRNT; 1.

SMART; SM00369; LRR_TYP; 3.

PROSITE; PS50835; Iq LIKE; 1.

KW Carboxypeptidase; Hypothetical protein; Metalloprotease; Protease.

SEQUENCE 521 AA; 56334 MW; 3DI4BEE302284A6 CRC64;

Query Match 10.8%; Score 339; DB 2; Length 521;

Best Local Similarity 27.08; Pred. No. 4.3e-11;

Matches 149; Conservative 66; Mismatches 217; Indels 120; Gaps 21;

Qy 1 MCSRVPLLLPLI---LILLALGPV---QGCPCQCQCQPOTVCTARQGTTPVRDVPD 53

Db 1 MALRAPTLILLLLGLLLPLLPGLPPRATGCPAACRC-YSATVECGALRLRVPPGIPG 59

Qy 54 TVGLYVFENGITMLDASSFACLPGLQLDLSONQIASIR-----LPRLLDLSHNSLL 107

Db 60 TQTFLFQDNSTAHLEQCSLAPLAALRHLYLHNNTLRALDESAGFAQPRLLLELAUTGNRLR 119

Qy 108 ALEPG-I-LDTANVEALRAGLGLQQLDEGLFSRLRNHLDLVDVSNQLRVPPVIRGLRL 166

Db 120 GLRGAFVGLVQLRVLYLAGNQLAKLLDFTLHLPRLQELHLQENSIE----- 167

Qy 167 TRRLAGNTRIAQRPEDDLAALQELVDVSNLSLQALPGDLGLFPRLRLAARNPFN 226

Db 168 -----LLEDQALAGLSLLDLDSRLNOLGTISKALQFLSSLQVLRLTENPWR 215

Qy 227 CVCPLSWFGPWVRESHVTLASPEETR--CHFPFKNAGRLLELDYADFGCPATTTATVP 284

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Db 216 CDCAHLGWSWKEGRRLLSSRDKITCAEPRLALQSLLVSGSLIC-----IP 267
QY 285 TTRPVVRETLSSSLAPTWSPTAPATAPSPSPSTAPPTVGVPOPODCPP--STCLNG 342
Db 268 PSNVV--EPEFTANLGED-LQVACOAGYFPQ-----LVWRKVPOPRGCKPQAQALEG 320
QY 343 GTCHLG-----TRHHLACLPEGPTGLY-CESQMGQCTRPSPFTVTPRPPR 387
Db 321 GAPGLGCHGTRDTGSGMLFTNITLA-----HAGKYECEANAGKARVPFHLLVNASR 374
QY 388 SLTGLI-EVPSPTSLRVGLQRYLQSSVQLRSRLTYRNLSPDKELVTI----- 436
Db 375 QOSQQLPQOPATRPVGHPEOHEAGSMAFRALGLATQTAITAAIALALTALLAAMIC 434
QY 437 -----RLPASLAET-----VTQLRPNATYSVCVW-----PLGPRGRVPE 470
Db 435 RRRRRKKVPAPSGEGTLFVNDYSDGCTPFAQLAEELRDDHGHMFVIDRSKPLFPPEVL 493
QY 471 GBEACGEAHTPP 482
Db 494 -EEA--PEHNPP 502

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RESULT 14

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Q6A073 PRELIMINARY; PRT; 637 AA.
AC Q6A073;
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE MKIAA0405 protein (Fragment).
GN Name=mkIAA0405;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Brain;
RA Okazaki N., Kikuno R.F., Ohara R., Inamoto S., Koseki H., Hiraoka S.,
RA Saga Y., Seino S., Nishimura M., Kaisho T., Hoshino K., Kitamura H.,
RA Nagase T., Ohara O., Koga H.;
RT "Prediction of the Coding Sequences of Mouse Homologues of KIAA Gene:
RT IV. The Complete Nucleotide Sequences of 500 Mouse KIAA-Homologous
RT cDNAs Identified by Screening of Terminal Sequences of cDNA Clones
RT Randomly Sampled from Size-Fractionated Libraries."
RL DNA Res. 11:205-218(2004).
DR EMBL; AK172945; BAD32223.1; -.
DR InterPro; IPR003961; FN III.
DR InterPro; IPR008957; FN III-like.
DR InterPro; IPR001611; LRR.
DR InterPro; IPR000483; LRR Cterm.
DR InterPro; IPR000372; LRR Nterm.
DR InterPro; IPR003591; LRR typ.
DR InterPro; IPR001211; PhospholipaseA2.
DR Pfam; PF00041; fn3.1.
DR Pfam; PF01463; LRECT; 1.
DR Pfam; PF01462; LRRNT; 1.
DR Pfam; PF00360; LRR 1; 10.
DR PRINTS; PR00019; LEURICHRPT.
DR SMART; SM00082; LRRCT; 1.
DR SMART; SM00013; LRRNT; 1.
DR SMART; SM00369; LRR typ; 7.
DR PROSITE; PS50853; FN3; 1.
DR PROSITE; PS00119; PA2 ASP; UNKNOWN_1.
FT NON_TER 1
SQ SEQUENCE 637 AA; 9577AD980D67162F CRC64;

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Query Match 10.6%; Score 332; DB 2; Length 637;
 Best Local Similarity 23.2%; Pred. No. 1.3e-10;
 Matches 142; Conservative 81; Mismatches 233; Indels 156; Gaps 19;

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QY 7 LLLPLLLALLGPGVQCGSCQSQPQTCTARQGTTPRDPDPDTVGLYVF----- 60
Db 3 LYLQVSKLLA-----CPSVCRCDR-NFYCNERSLTSPVPLGIPBGVTVLHNNQINN 54
QY 61 -----ENGIWLDASSAGLPGQL 80
Db 55 AGFPAPLHNVSQVHTVYLYGNQLDPEFPMNLKPNRVHLQENNIQTISRAALAQLLKLEE 114
QY 81 LDLSONQIASRLP-----RLLLLDLSHNSLLALEFGI---LDTANVEALRLA---G 126
Db 115 LHDDNSISTVGVEDGAPREAI SLKLLFLSKNHLSSVPVGLPVDQLQELAVDENRIAVISD 174
QY 127 LGLQQLD-----EGLFSRLRNLDLDVSDNQLERVPVIRGLRGLTR 168
Db 175 MAFQNLTSRLERLIVDGNLLTNKGIAEGTFSHLTKLKEFSIVRNSLSHPDPDLFGTH-LIR 233
QY 169 LRLAGNRTIAQLRPEDLAGLAALQELDVSNLSIQALPGDLSGLFPRLRLAARNPENCV 228
Db 234 LYLQN-QINHPLTAFANLRLKLERLDISNNQIRMLTQGVFDHLSNKLQLTARNNPFCD 292
QY 229 CPLSWFGPWRSHVTLASPEETRCHFPKNAGRLLLELDYADFGCPATTTTATVPTTRP 288
Db 293 CSIKWTEWLKYPSSL-NVRGFMCGQGPQVGRMAVRELNMNLLSCPTTTPGLPVFTTAP 351
QY 289 VVREPTALSSSLAPTWSPTAPATAPSPSTAPPTVGVPOPODCPPSTCLNGCTCHLG 348
Db 352 -----STVSPTTQSPTL-----SVFSPSRGSGVPAPTPSKLPTIPDMDG----- 390
QY 349 TRHHLACLCEGTGLYCESQMGQGTTRPSPTVTPRPSRLTLGLIEPVSPSTSLRVGLQRY 408
Db 391 -----RERVTPISERIQLSIHFNVDTSIQVSWLSL 421
QY 409 LOGSSVQLRSRLTYRNLSSGDPKRLVTLRLPASLAEY-TVTQLRPNATYSVCVMPGLPGR 467
Db 422 FTVMAYKLTWKMGHSLVCG-----IVQERI VSGEKHLSLVNLEPRSTYRICVLPLDAFN 477
QY 468 VPEGSEA-CGEAHTPPA-----VHSNAPVTOAREGNLPLLIAPALAAVLLAALAAVG 519
Db 478 YRTVEDTTCSEATTTHASVINGNSNTASSHEQTTSMSGSP-PELLAGLIGGAVIFVLVLL 536
QY 520 AAYC---VRRGR 528
Db 537 SVFCWMMHKKGR 548

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RESULT 15

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LRR4_HUMAN
ID LRR4_HUMAN STANDARD; PRT; 653 AA.
AC Q9HBM1; Q6ZM18; Q96A85;
DT 25-OCT-2004 (Rel. 45, Created)
DT 25-OCT-2004 (Rel. 45, Last sequence update)
DT 25-OCT-2004 (Rel. 45, Last annotation update)
DE Leucine-rich repeat-containing protein 4 precursor (Brain tumor
DE associated protein LRR4) (NAG14) (UNQ554/PRO111).
GN Name=LRR4; Synonyms=BAG;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Wang J.;
RL Thesis (2000), Zhongshan Medical University / Guangzhou, China.
RN [2]
RP SEQUENCE FROM N.A.
RA Wang J., Bin L., Jiang N., Li G.;
RT "Brain-specific gene, a novel member of leucine rich repeat.";
RL Submitted (FEB-2002) to the EMBL/GenBank/DBJ databases.
RN [3]
RP SEQUENCE FROM N.A.
RX MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;
RA Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D., Brush J.,
RA Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,

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